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Volume 151 No. 19 May 12, 1947

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Oil, Paint and Drug Reporter

Volume 151 No. 19 | New York 7, N. Y. | May 12, 1947

FDA Appropriation Boosted by Senate

OPD Washington Bureau

Funds for enforcement operations of the Food and Drug Administration were increased $115,300 over the amount provided by the house in the appropriation bill for the Federal Security Agency passed by the senate last week. In addition, the senate provided the agency with an additional $100,000 over house appropriations to cover the cost of certifying streptomycin during the fiscal year 1948.

The increase in enforcement expenditures was nearly half of that recommended by the bureau of the budget, and will be used largely, if approved by the house, for import inspection work. During hearings on the bill, officials explained that the volume of import inspections has increased materially since the war due to the fact that much of the imports constitutes materials that had been in storage abroad during the war which became contaminated with insects and other foreign matter.

In addition to these increases, the senate also added $500,000 to the funds of the National Institute of Health and at the same time $1,000,000 of the $9,626,000 allotted to the institute was earmarked to provide, through grants-in-aid, for a clinical and laboratory research program in tuberculosis therapy, revolving around the use of streptomycin.

Sweden Modifies Import Rules

OPD Washington Bureau

The Swedish government has agreed to a modification of its import restrictions put into effect March 15 to permit entry of goods which were contracted for prior to that date but which were not deliverable until later, according to the State Department.

As a result of conferences with Swedish officials in Washington last week, the department said, the Swedish government announces that licenses will be granted for the import of all commodities which were placed under import restrictions on March 15, provided that the Swedish importer when applying for an import license establishes the following facts:—

That a bona fide contract contemplating delivery prior to October 1, 1947, had been entered into on or before March 15, 1947, and that the delivery in Sweden of the goods mentioned in the contract will be effected before October 1, 1947.

In the case of contracts providing for periodic deliveries, favorable consideration will be given only to that part calling for deliveries prior to October 1. It is suggested by the State Department that American exporters make sure that a Swedish import license, when required, has been granted, before shipping their goods to Sweden. With this end in view the American exporter should obtain the number of the Swedish import license from the Swedish importer.

Senate Votes 1948 Manufacturers Census

OPD Washington Bureau

The senate last week voted its approval of S.554 providing for census in 1948 of manufacturers, minerals, and the distributive trades and every five years thereafter. The measure passed unanimously and was sent to the house for concurrent approval.

The census of manufacturers will be the first that has been undertaken since 1939. Although such censuses are supposed to be taken every two years they were suspended during the war. In addition to providing for the census the bill also authorizes the director of the bureau to make such surveys as are deemed necessary to furnish annual and other interim current data on the subjects covered by the five-year censuses.

Whale Oil Catch Totals 16,000 Units

OPD Washington Bureau

The entire quota of 16,000 blue whale units set up under the International Whaling Agreement for the season just closed in the waters of the Antarctic was reported to have been taken by the participating countries. It is estimated that the catch, using the established conversion factors, would yield approximately 250,000 tons of oil, which would have a value at present-day prices of about $1,250,000.

Explosives Transport Rules Amended

Regulations governing the transportation of explosives were modified in several particulars last week by the Interstate Commerce Commission to provide for the transportation by rail of rocket ammunition.

Another change made in the regulations prohibits the use of boxed carboys for shipment of antimony pentachloride or tin tetrachloride, anhydrous. Shipment of this material is limited to small glass bottles.

The amended regulations also provide that phosphorus oxychloride and phosphorus trichloride may now be shipped in pure nickel tankcars. Heretofore this was limited to lead-lined tankcars.

An overall revision of specifications covering compressed gases also is contained in the amended regulations.

Tax Revision Hearings May 19

The ways and means committee of the house will start hearings May 19 on a general revision of the tax structure, it was announced last week by Chairman Harold Knutson of Minnesota. Mr. Knutson promised substantial reductions in taxes as a result of the revisions.

The chairman said that the hearings will canvass the entire field of Federal taxation, including individual, corporate and excise taxes. It is not contemplated that legislation will be sought this session, he added, but a bill will be introduced at the outset of next session with a view to its early enactment.

Senate to Study Overlapping Functions in Drug Regulation

OPD Washington Bureau

Legislation of major importance to the drug and pharmaceutical industry, providing for the elimination of overlapping functions as between agencies of the Federal government, and between the Federal government and the states, has been introduced in the senate by Senator Pat McCarran of Nevada.

The bill (S. 1159) will not be pressed for enactment at this time, however, Mr. McCarran said, but is only being offered for study and possibly extensive hearings as the first step in what he hopes will be a trend away from centralized government and towards the restoration of state and local authority. The bill has been referred to the senate judiciary committee.

It was indicated by the senator that his action in introducing the bill was motivated in large part by the recent request of the Food and Drug Administration for an amendment to the Food, Drug and Cosmetic Act to restore to it power to make seizures of products that become adulterated after they have completed their interstate journey.

He said that while he was expressing no opinion on the merits of the FDA's request, it is an "excellent example" of the point he wished to make.

"If Congress grants such jurisdiction to that agency," he asked, "will all state and local jurisdiction to the same effect automatically cease to be valid as respects all products which have traveled interstate? Manifestly, the Food and Drug Administration cannot police the country from top to the grass roots, unless we are willing to give it funds and personnel beyond anything ever contemplated."

As regards the matter of overlapping jurisdictions between the Federal agencies themselves, Senator McCarran said that there were many examples to be cited, but one in particular is the regulation of fraudulent practices. The Federal Trade Commission, the Post Office Department, the Food and Drug Administration, and others all have jurisdiction over the subject and sometimes they all act in the case, he pointed out.

Senator McCarran said that he could not indicate at this time how such a situation would be corrected, and it is entirely too early to think in terms of combining the Federal Trade Commission with the Food and Drug Administration in order to telescope jurisdiction of food and drugs. He hoped that the hearings to be held on his measure would throw some light on the solution of the problem which admitted is one that is growing in importance daily.

Justice Dept. Probe Of Large Firms Told

OPD Washington Bureau

Monopolistic practices among the nation's largest corporations are under active investigation by the Department of Justice, Attorney General Tom Clark and former chief of the antitrust division, Wendell Berge, told the house appropriations committee during hearings on the department's 1948 supply bill.

Last year the committee expressed critcism of the "harrassment" of small business by the antitrust division and suggested that more attention be devoted by the department to activities of the large corporations. The Attorney General and Mr. Berge informed the committee this year that its recommendations are now being followed.

Mr. Berge said that of the 100 largest corporations in the United States forty-four are now involved as defendants in antitrust cases and thirty-five more are right now involved in active investigation. He said that the country is now experiencing the greatest concentration of economic power in its history, stating that at present sixty-three of the largest manufacturing concerns have enough capital to buy out the 71,700 smaller ones representing 94 percent of the total of all manufacturing concerns.

Antitrust Functions Under New Head

Appointment of John Ford Baecher as first assistant in the antitrust division of the Department of Justice was announced last week by Attorney General Tom Clark.

Mr. Baecher, who will be under the immediate supervision of Assistant Attorney General John F. Sonnett, will have charge of all antitrust matters coming before the department. Previously Mr. Baecher served as the first assistant in the claims division of the department.

Price Index Drops Further

Price movements were heavily weighted on the down side last week and the OPD general price index dropped once more. The main influence was pronounced weakness in expressed oils, an influence that was tempered moderately by advances in a few botanical drugs and a large number of essential oils. The expressed oils market was practically at a standstill as buyers withdrew pending further development in the situation. The main price trend in botanicals was overwhelmingly downward. Essential oils reversed their recent trend toward lower levels and did so abruptly.

Buyers of heavy chemicals showed a disposition to take on minimum quantities sufficient to cover actual needs. Supplies of potash chlorate, copper sulphate, nickel based chemicals, and zinc sulphate were larger. Alkalies continued in tight position. And soda tungstate was quoted only to regular customers and only for May delivery.

The carryover of agricultural chemicals into the new season for fertilizers will be small. Shortages exist in ammonia sulphate, cyanamide, potash and ammonia nitrate, and superphosphate. Demand for packing house chemicals contracted sharply. Demand for insecticides was at seasonal average.

A total of 113 price changes was reported. Of that total, eighty-three were declines and thirty were advances. In heavy chemicals, the advances came in barium dioxide, hydrate, and nitrate. Also, soda hyposulphate and tungstate. Barium oxide was lower; also soda chlorate for export. In fertilizer chemicals, lower quotations came on dried blood, bone meal, and tankage. The more important expressed oils showing a decline were coconut, corn, soybean, and tung. Also, copra, stearic acid, and tallow. In botanicals, the main influence on the index was the rise in arnica flowers. Condimentals showed pronounced weakness. Finally, outstanding advances in essential oils included peppermint, cassia, wormwood, and lavender.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

May 8, 1947	May 1, 1947	May 9 1946
146.1	147.9	135.2

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
February	151.9	135.4	133.2	110.3
March	154.9	135.2	132.7	111.9
April	152.3	134.9	132.2	115.5
Year's av'age		138.8	133.3	123.2

Titanium Pigments Off Positive List

Titanium dioxide and titanium pigments may now be exported from the United States under general license to all destinations in Group "K" destinations. The Office of International Trade announced last week that these materials had been removed from the "positive" list requiring individual licenses to export, effective as of May 1.

The agency also announced that unground pepper and ground black and white pepper also had been removed from the positive list on the same date and may now be exported to Group "K" destinations under general license procedure.

Shell Oil Officer To Retire July 1

Ralph B. Roark, vice-president of Shell Oil Company, has declared his intention of retiring on July 1 because of ill health. He will be succeeded by W. A. Alexander, area manager at Houston, Tex.

D.C.A.T. Luncheon Set for June 25

The Spring luncheon meeting of the Drug, Chemical and Allied Trades Section of the New York Board of Trade will be held at the Pennsylvania Hotel, June 25.

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Tin Control Transferred

General import order M-63 was revoked May 1 by Civilian Production Administration and its controls of imports of tin were transferred to the tin conservation order M-43. Tin was the last commodity remaining under M-63.

Obituaries

Thomas S. McCarthy

Thomas S. McCarthy, "Mac" of the OIL, PAINT AND DRUG REPORTER, died May 9 in St. Mary's hospital, Brooklyn, N. Y. He was forty-two years old.

Mac was named managing editor of OPD in 1945, fifteen years after becoming associated with the journal as a reporter. Prior to that he was with the International News Bureau from 1918-19; the Philadelphia Record, 1919-21; the Philadelphia Evening Bulletin, 1923-26 and the New York News Bureau, 1926-30.

A native of Philadelphia, he graduated from Villanova College in 1926 and received a degree from the Wharton School of the University of Pennsylvania the following year.

Mac was a member of the Chemists' Club and of the Salesmen's Association of the Chemical Industry, in which he was very active.

Surviving are his widow, the former Anne M. Hediger; two sons, Thomas, jr., and Joseph; a sister, Mrs. Raymond T. Clarey and a brother, John J. McCarthy.

John N. Staples

John Norman Staples, a director and former senior vice-president and treasurer of E. R. Squibb & Sons, New York, died May 8. He was sixty-five years old.

Due to ill health, Mr. Staples retired from active participation in the Squibb organization last October, but continued as a director of the company and as president of the Jones Estate Corporation, which owns the Squibb Building, at Fifth avenue and Fifty-eighth street.

Edwin L. Ashton, manager of the Gulf Red Cedar Company, Stockton, Calif., died May 5 at Stanford hospital, San Francisco. He was seventy-two years old. Formerly a trustee of Stevens Institute of Technology, Hoboken, N. J., he was general manager of the American Lead Pencil Company, Hoboken, from 1900 to 1942.

Charles Helms, retired employee of Heller & Merz Company, aniline dye manufacturer, died recently at his home in Brooklyn, N. Y. He was seventy-eight years old. He was employed for forty years by the dye

—Continued on page 42

Rassweiler Heads New York Section of A.C.S.

Dr. Clifford F. Rassweiler, vice-president for research and development of the Johns-Manville Corporation, was chosen chairman-elect of the American Chemical Society's New York section at the section's annual meeting in the Hotel Pennsylvania May 9.

Dr. Rassweiler will take office as chairman-elect on July 1, when Professor Hans Thacher Clarke, of the College of Physicians and Surgeons, Columbia University, will become chairman, succeeding Professor Raymond E. Kirk, head of the department of chemistry and dean of the graduate school in the Polytechnic Institute of Brooklyn.

Professor Edward J. Durham, of New York University, was reelected secretary and H. Burton Lowe, executive vice-president and treasurer of the Reinhold Publishing Corporation, was renamed treasurer.

Dr. Rassweiler was associated with E. I. du Pont de Nemours & Co. for seventeen years, the last nine as director of the company's paint and varnish laboratory at Philadelphia, before he joined Johns-Manville in 1941.

McIlvain Elected A.C.S. Director

John M. McIlvain, administrative supervisor of the research and development department of the Atlantic Refining Company, Philadelphia, has been elected a director-at-large of the American Chemical Society. He succeeds Dr. Charles Allen Thomas, vice-president and technical director of the Monsanto Chemical Company, now president-elect of the society.

Blackstrap Molasses Price Drops Further

OPD Washington Bureau

A further drop in Cuban blackstrap molasses prices was recorded by the Reconstruction Finance Corporation in its bid for the sale of three cargoes of 1,800,000 gallons each. The first cargo due to arrive on May 17 went to Publicker Industries, Inc., at 21.5 cents a gallon and the second, due to arrive May 21, to the same buyer at 20 cents a gallon. Commercial Solvents Corporation purchased the third cargo, due to arrive May 24, at 18.16 cents a gallon.

Streptomycin Quotas Established for May

Initial streptomycin allocations totaling 553,900 grams for the current month were announced by the Office of Materials Distribution, Department of Commerce last week. This compares with an allocation of 478,600 grams for April.

The May allocations were listed as follows: — Armed services, 30,000 grams; other government agencies, 45,000; research, 8,200 grams; civilian use, 370,000 grams, and export 100,000 grams.

Geochemistry Course Offered at Pa. State

Pennsylvania State College recently introduced a course in geochemistry, believed to be the first of its kind offered to students in this country.

Under the direction of Dr. Sylvain J. Pirson, a laboratory of geochemistry and applied geophysics has been set up to carry out instruction for students and to conduct research in the development of new mineral resources.

Market Reports

Citrates were advanced late last week by 2c. per pound on potash, and 1½c. on soda. New quotations became as follows:—Potash, 35½c. to 40½c. per pound; soda, USP VIII, 20c. to 25c.; USP XIII, 26c. to 31c. These advances reflected at last the late rise in citric acid prices.

Coconut oil was inactive, with crude oil quoted at 14c. per pound, tankcars, f.o.b. Pacific coast. Business was reported at this figure early in the week.

Linseed oil shipments from the Argentine were reported at 427 tons for non-European destinations.

Menthol developed strength as the week drew to a close and quotations became $8.50 to $8.75 per pound without much trading being reported.

Peanut oil was quiet and nominal. Crude oil was quoted at 24c. per pound, tankcars, f.o.b. Southern mills.

Shellac prices were lower at the end of last week. T. N. became 60c. per pound; superfine, 62c.; lemon No. 1, 67c.; No. 2, 64c. Supplies were in very good shape and the availability of the material tended to turn price still further in favor of buyers.

Exports from Calcutta during the period January through August, 1946, totaled 181,331 packages of orange, button, and garnet varieties, according to data received from Calcutta late last week. The total compared with 125,755 packages exported during the corresponding period in 1945. Exports of seed and kiri lack totaled 100,484 packages for the 1946 period, against 36,794 packages in 1945.

Silver bullion prices underwent moderate upward price reaction from the low of 71¾c. reached earlier in the period. The last price obtainable last week was 72¾c. per ounce.

Tung oil trading became active late in the week and a good volume was reported on the basis of 28½c. per pound, tankcars, for prompt and nearby delivery.

Harriman Decries Budget Slash

OPD Washington Bureau

A decrease of approximately 33 percent or $95,932,000 in appropriations for the Department of Commerce for the fiscal year 1948 made by the house committee on appropriations below the budget bureau's recommendations for this department was sharply criticized last week by Secretary of Commerce W. Averell Harriman. The department was allowed $191,057,000 by the committee compared with $286,989,000 recommended by the budget. Compared with the current year's appropriation it was a reduction of only $4,500,000, however.

Mr. Harriman said that the reduction will mean heavy cutbacks in planned programs of the Bureau of the Census, the Bureau of Foreign and Domestic Commerce, the Civil Aeronautics Administration and the Office of the Secretary. Some of the specific services performed by the department which must be eliminated or curtailed if the committee's recommendations are concurred in by congress were outlined by the Secretary as follows:—

Bureau of the Census.—Appropriations for current census statistics were reduced from $11,500,000 to $5,000,000, a cut of over 56 percent. This will require, Mr. Harriman said, that more than half of the existing "Facts for Industry" reports will have to be abandoned, sharply curtailed, or issued less frequently. It will be necessary, in the report on production, consumption and stocks of animal and vegetable fats and oils (Series M17-7) to eliminate many of the minor fats and oils. Reports on gelatin, blue, and bone black (series M19M) will have to be discontinued. It will be necessary to reduce the number of classes of containers in the report on steel shipping barrels, drums, and pails (series M75A). The report on porcelain enameled products (series M75B) will have to be discontinued.

In addition to the sharp curtailment of the "Facts for Industry" reports, indicated above, the reduced appropriation will not permit the initiation of a number of reports for which funds had been requested, the secretary said. These included annual surveys of the drugs and medicines industry, the meat packing industry, and the mineral wool and other insulating materials industries. Also deferred will be monthly surveys of prepared animal feeds, prefabricated houses, non-paper users of wood pulp, and stocks of wood pulp in the hands of importers.

Bureau of Foreign and Domestic Commerce.—Appropriations cut from $11,675,000, recommended by the budget bureau, to $7,000,000. This will require the closing of thirty-nine of the seventy-eight field offices, leaving thirty-nine offices operating compared with twenty-six a year ago. It also will force curtailment of the department's commercial intelligence services to American foreign traders, such as basic information about tariffs, exchange rates, import controls, trade agreements, transportation, status of dealers and distributors abroad that can handle American products, and general data on economic conditions abroad.

The slowness of the department in providing necessary commodity and industry information to American business seeking to engage in foreign trade is the largest single source of complaint to the department from the business community at the present time, the secretary said. The proposed reduction in appropriations will further retard the efforts of American traders to obtain the information.

N.Y. Paint Club Elects New Officers

The New York Paint, Varnish and Lacquer Association elected Gustave Klinkenstein, of Maas & Waldstein Company, Newark, N. J., president at a meeting held last week at the Biltmore hotel.

Other officers named were:—Paul S. Kennedy, finishes division of Interchemical Corporation, vice-president; Morton M. Gruber, U. S. Industrial Chemicals, secretary, and Hendrick E. Hendrickson, S. Winterbourne & Co., treasurer.

Oil, Paint and Drug Reporter, Vol. 151, No. 19, May 12, 1947. Published every Monday by Schnell Publishing Company, Inc., 59 John St., New York 7, N. Y., U. S. A. Subscription price:—United States and possessions, Cuba, Central America, and South America, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office, under the act of March 3, 1879. Copyright, 1947, by Schnell Publishing Company, Inc.

Washington Talks It Over

The OPD Observer

While the heads of the various departments of the government flatly deny that any such situation exists, it seems now to be a pretty widely accepted fact that the Administration is acting in concert to block every move made by Congress to economize in government spending. Every appropriation bill that has been reported to the house thus far, has been followed immediately by press conferences, called by the heads of the departments affected, to sing the song about how Congress was crippling the executive branch of the government.

The latest to hold forth on this tune was Commerce Secretary W. Averell Harriman. Twenty-four hours after the house appropriations committee brought in its bill for his department, the Secretary held one of his infrequent press conferences to deplore the committee's cuts and warn how business is going to suffer from the reduced activities of the department. The committee reduced the budget recommendations for the department by $95,900,000, but allowed the department $191,000,000, which was within $4,500,000 of what the department got this year.

The same is true with each of the other departments whose bills have been reported. While each have suffered heavy cuts in funds in comparison with the amounts recommended by the budget bureau, the appropriations granted by the committee have been within a few million of what they got by on this fiscal year. But little mention is being made of this fact by the department heads. Their complaint is that they can't go ahead with the heavy expenditures that the budget bureau would have allowed.

But Congress is definitely economy-minded and plans to go ahead with its budget slashing whether the departments intend to cooperate or not. The senate, which for the past fourteen years, has been increasing every departmental appropriation bill that came before it and could always be counted upon by the departments to save them from the house slashings has reversed itself. In the Labor Department's bill, the only one it has acted on yet, the senate knocked off another $8,000,000 from the already reduced total provided by the house.

Also, there is a definite movement on foot in the senate for passage of a constitutional amendment that will prohibit the government ever again engaging in deficit financing, except in the case of extreme emergencies. Its appropriations committee has approved a resolution amending the constitution to require the federal government to live within its income, and can only vote funds in excess of income by a three-fifths majority of the senate and house.

Trade With Japan

Plans for the reopening of private trade relations with Japan are being actively made by the government. A trade mission composed of representatives of the War, State, Treasury and Commerce Departments, the RFC and the United States Commercial Company, left last week for Tokyo to begin discussions with SCAP staff sections on reestablishing private trade under SCAP control.

It will be within the scope of the mission to explore the possibilities of opening transactional communications, exchange of samples, commercial banking procedures for private businessmen and reestablishment of

—Continued on page 36

CPA Functions Transferred to OMD

OPD Washington Bureau

An Office of Materials Distribution to carry on the work of the Civilian Production Administration in controlling the distribution of streptomycin, cinchona bark and such other products as still remain under control, was set up in the Bureau of Foreign and Domestic Commerce last week by Secretary of Commerce W. Averell Harriman.

Horace B. McCoy, director of the Office of Domestic Commerce, was named director of the new office and will devote his major attention to the new post until such time as OMD's functions are liquidated or transferred to permanent organizations of the department. During his temporary leave from the Office of Domestic Commerce, John L. Haynes will serve as Acting Director of ODC.

OMD will take over the relatively few operations carried on by the CPA since expiration of many of its powers under the Second War Powers Act, March 31, 1947. These embrace limited controls over a half-dozen critically scarce commodities and preference assistance to export orders for materials and goods required to expand foreign production of items badly needed in this country, or to fulfill international commitments.

OMD will be staffed largely by former CPA officials. Lucius F. Foster, former Deputy Commissioner for Civilian Production, who is resigning from government service May 15, will act as consultant to Mr. McCoy until that date. Irving C. White, former director of CPA's bureau of industry operations, will serve as an assistant to Mr. McCoy.

The new office will consist of the office of director, four materials division and a liquidating division. Staff functions to be performed in the office of the director will include issuance, following recommendations of the Secretaries of State and Commerce, of authorizations to place certified export orders in the limited circumstances prescribed by Congress. Charles E. Grimm, formerly assistant to the director of the bureau of priorities, will be assistant to Mr. McCoy on export policy.

The rubber division, under W. James Sears' direction will carry out the provisions of the congressional act recently passed to provide continuing control over rubber, pending adoption of permanent legislation.

The other materials divisions—chemicals, Frank E. Bennett, chief; metals, Frank H. Hayes, chief; and cordage, Franklin F. Kidd, chief—will carry out the provisions of the First Decontrol Act of 1947, as they apply to streptomycin and cinchona bark and alkaloids; tin and tin products and antimony; and manila (abaca) and agave fiber and cordage; and administer the former CPA orders covering allocations and use of these materials.

The liquidation division, under David Novick, will wind up the affairs of all other parts of former CPA activities.

Materials Control Regulation No. 1, which was issued simultaneously with the setting up of the new office, adopts for OMD, and continues in effect, all regulations, orders, directives and other actions issued or taken by CPA or the War Production Board, which were in effect on May 4, except those transferred to the Office of Housing Expediter on April 1.

Koppers Names Minton Production Manager

Brig. Gen. Hugh C. Minton has been appointed production manager of Koppers Company and will assume his duties on July 1. He will report directly to Gen. Brehon Somervell, president of Koppers, thereby reestablishing a relationship set up during war when the latter was commanding general of the Army Service Forces and Gen. Minton served under him in the ASF production division.

In his new position, Gen. Minton will be responsible for the efficiency of Koppers' manufacturing operations; dissemination of information on manufacturing methods; advice and consultation on such methods; installation of new and improved systems for manufacturing process, factory and shop management, and plant development and expansion.

N.Y. Barbiturates Rules Protest Vetoed

Protests against the proposed tightening of controls over barbiturates, lodged by the New York Pharmaceutical Council and the New York Pharmacists Association, were rejected last week by the New York City Board of Health.

The contemplated local law amendments are designed, according to the city health commissioner, to supplement existing state laws, and will contain additional regulations requiring that prescriptions may not be refilled unless so ordered by a physician, who must fix the time and intervals for refilling.

In their protest, the pharmaceutical groups contended that state laws are sufficient and that local regulations would impose unnecessary hardships upon druggists. They said that adequate enforcement of the present laws would satisfactorily control the handling of the drugs.

The proposed amendments, which would also require druggists, drug wholesalers and hospitals to keep records of purchases and distribution of the drugs, will be considered this week by the Board of Health, according to Dr. Israel Weinstein, health commissioner.

A.D.M.A. Recognizes Services of Dohme

OPD Washington Bureau

Dr. Alfred R. L. Dohme, former president of Sharpe & Dohme, Philadelphia, was presented with a handsome leather-bound copy of a resolution adopted by the American Drug Manufacturers Association in recognition of his long services to the association and the drug industry, at appropriate ceremonies May 2.

The resolution, which was presented to Dr. Dohme by John S. Zinsser, president of the ADMA, expressed the association's "deep sense of gratitude for his outstanding contribution to the association, particularly during the period of its formation and early growth, as well as to the drug manufacturing industry as a whole."

Dr. Dohme, who has retired from active manufacturing, was one of the founders of the ADMA, having been a founder in 1898 of its predecessor, the Homilia Club.

Philippine Copra Tentative Quotas Set

OPD Washington Bureau

The International Emergency Food Council has announced an interim allocation recommendation covering 1947 Philippine copra supplies which authorizes any recipient country with a tentative annual allocation of not more than 12,000 metric tons (oil equivalent) to lift the entire quantity, and recipients with a tentative annual allocation of more than 12,000 tons to lift 55 percent of such allocation.

This recommendation has been made to facilitate the flow of Philippine copra pending the completion of current discussions in the committee on fats, oils and feeds of the council, looking toward the announcement of a revised allocation recommendation covering all supplies of fats and oils expected to be available in 1947.

The committee on fats, oils and feeds points out that the present recommendation is based upon the first estimate of Philippine copra production for 1947, but that production may exceed earlier expectations. As a consequence, the revision of the 1947 allocation recommendation now being made for all fats and oils probably will include an upward revision in the estimate of Philippine copra production.

Tentative allocation for the year to the United States is 199,000 metric tons (oil equivalent), including 3,000 tons transferred from Poland for crushing.

Naval Stores Exchange Refuses to Close

Proposal that the Savannah Naval Stores Exchanges close until turpentine prices were steady was rejected by the exchange executive committee with the comment, "do not consider market has behaved peculiarly but that it truly reflected supply and demand."

In turning down the proposal, which was made by Harley Langdale, president of the American Turpentine Farmers Association, the exchange declared that limiting transactions to producers only would invite market manipulations, which is contrary to the policy of the exchange, and stated flatly that "this market will remain open in the future as in the past for free and unrestricted legitimate trading."

Plastics Society Views New Uses

The versatility of plastics was demonstrated in Chicago last week when the annual convention and exposition of the Society of the Plastics Industry was held. Theme of the meeting was fitting the right plastic to the right use.

Addressing the meeting on the subject of "Standard Costs in the Plastics Industry," E. J. Johnson, treasurer of Plastic Manufacturers, Inc., outlined the advantages of a standard cost system over an actual cost system of accounting.

He pointed out that a standard cost system presents current information which management may use to correct any factors resulting in excessive cost, provides information which is the result of a study of the company's facilities and output over an extended period, and gives measuring sticks for a comparison of actual costs and ready analyses of variances.

The speaker described the steps involved in setting up a standard cost system in a plastics manufacturing plant, and took his audience through each step of the way, detailing the methods used to arrive at standard costs.

In concluding his talk, he summarized the advantages of this type of system by saying, "the management having established standards for labor, material and overhead with the plant and the management being provided with the variances between the standard costs and the actual costs, the management is in a position to correct operations within the plant to control quantities of material purchased and the price paid for the material, to measure the efficiency of the worker, to control the overhead within the plant and to correct any factors which tend to decrease the operating capacity previously established."

Moderate but gradual improvement in supplies of thermo-setting molding materials was forecast by Frank H. Carman, general manager of the Plastic Materials Manufacturers Association, who said that although supplies are still critical at present, improvement in the overall picture should show up during the third quarter.

He said that many of the increases in capacity reported by the material manufacturers to provide additional amounts of molding materials have been brought in, or at least completed to the extent that the supply of basic chemicals is now the controlling factor in providing compression molders with greater quantities of molding powder.

"It is heartening to report," the speaker said, "that the recent safety

—Continued on page 44

Linseed Oil Imports Back in Private Hands

OPD Washington Bureau

Importation of flaxseed and linseed oil from Argentina and other world production areas was returned to private hands by the Department of Agriculture last week, with issuance of a statement of policy setting forth the conditions under which import licenses will be granted.

It was announced that as a general rule import licenses will be issued only to eligible prewar crushes, meaning those persons who purchased linseed oil or flaxseed from the Commodity Trade Corporation stockpile during the years 1942 through 1946. The exception to this rule is for hardship cases where it can be shown that the limitations of the rule would work an unreasonable hardship on the applicant for the license.

No import licenses will be required in the case of linseed oil located and produced in Canada, Mexico, Guatemala or El Salvador and transported to United States overland, by air, or by inland waterway.

Amer. Cyanamid Halts Work on New Plant

American Cyanamid Company last week suspended most construction work on the proposed Willow Island plant near St. Marys, W. Va., because of excessive costs and an uncertain labor outlook. The plant, which was to have commenced operating this year, was designed to manufacture synthetic folic acid, a plastic base called nelamine and inorganic paint pigments.

Fahrenheit's zeal never slackened

For years Fahrenheit attempted to construct a practical thermometer so that he could with his . . . "own eyes perceive this beautiful phenomenon of nature". . . that water boils at a fixed heat. His zeal never slackened.

And for years the efforts of the instrument maker were in vain until he remembered that the column of mercury in a barometer was "a little altered by the varying temperatures of the mercury. From this I gathered that a thermometer could be constructed of mercury. . . ."

The rest is history. Fahrenheit's mercury thermometer, perfected in 1714, and his scale of temperatures are in common use throughout the English speaking world.

Mallinckrodt Mercurials have far reaching uses. Over thirty compounds are manufactured in accordance with the Mallinckrodt tradition of purity, uniformity and dependability. **These compounds include Calomel, Corrosive Sublimate, Mercury Iodide, Nitrate, Oleate, Oxide and other various mercuric and mercurous salts.**

MALLINCKRODT FINE CHEMICALS Mallinckrodt SINCE 1867 **CHEMICAL WORKS**

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CHICAGO • PHILADELPHIA • LOS ANGELES • MONTREAL

UNIFORM • DEPENDABLE • PURITY

Army Research Program Revealed

OPD Washington Bureau

The War Department's program of research and development for the fiscal year 1948 was made public last week showing a wide range of subjects selected for study, the results of which would be of major importance to the chemical and allied industries.

Included in the program are such matters as defenses against known toxic agents and possible medical uses of certain toxic agents; development of lighter weight, waterproof, durable and fire resistant materials for camouflage; research and development of newest techniques and scientific discoveries to produce both potable and palatable water, and continuation of present work being done in the field of bombs and pyrotechnics, high explosives and rocket propellents.

The program is under the immediate direction of Major General Henry S. Aurand, chief of the research and development division which was raised to the General Staff level last year by Secretary of War Robert P. Patterson. It is to be carried on largely through civilian educational institutions and industrial laboratories on a contract basis.

Materials Substitutes

One of its particular aims is to find substitutes for materials which may be expected to become critical during any emergency. In the allocation of funds for research and development projects, particular emphasis is being placed upon research and to this end the modification of existing standard items of equipment to produce improved models and the procurement of expensive end items of development equipment is to be drastically curtailed.

In the field of chemical warfare and related research, the program places extreme importance on research in defense against all known toxic agents and the development of detecting devices which are both accurate and simple. It states that the necessity for screening newly developed chemicals is obvious from a defensive standpoint. Research in collaboration with the medical department for development of new and simpler methods of treating gas casualties must be continued, it was added, as well as research into possible medical uses of certain toxic agents.

Military Medicine

With respect to military medicine, the program states that research must be continued in all of the fields now being investigated for as certain projects are completed or are discontinued because of lack of results, others will suggest themselves and must be pursued. Of particular importance for future research in addition to present categories, listed as supplemental to military medicine research are programs in the field of preventive medi-

—Continued on page 50

Sterling Drug Names Holland Coordinator

Sterling Drug, Inc., New York, has named Dr. Christian V. Holland coordinator of manufacturing facilities, to advise the company's divisions and subsidiaries respecting technical and production problems, and to serve as a member of the production committee.

Dr. Holland was previously associated with Merck & Co. for twelve years and, during the war, served as a member of the United States strategic bombing survey, active in surveying damage to synthetic oil, rubber and chemical plants in Germany.

Pennsalt Adds to Staff At Whitemarsh Labs

J. C. Russell has been appointed senior research entomologist for the Whitemarsh research laboratories of the Pennsylvania Salt Manufacturing Company, Philadelphia. Formerly with the Gainesville, Fla., Agricultural Experiment Station, Mr. Russell will have charge of field experimental work in agricultural chemicals in the southeast.

R. D. Trezise, former chief chemist at the Pennsalt South Philadelphia plant, has been appointed research chemist at the Whitemarsh laboratories.

Jones-Dabney Vice-Pres.

E. F. Musterman has been elected a vice-president of Jones-Dabney Company, industrial division of Devoe & Raynolds Company, Louisville, Ky. Mr. Musterman is in charge of the manufacture of lacquers, varnishes, enamels and synthetic resins at the Louisville, Detroit and Newark, N. J., plants.

Industrial Board Elects Directors

David M. Goodrich, chairman of the board of B. F. Goodrich Company, Akron, Ohio, has been reelected to the board of directors of the National Industrial Conference Board.

Other members of the board include:—General Robert E. Wood, chairman of Sears, Roebuck & Co.; Dr. Nicholas Murray Butler, former president of Columbia University; Alexander Fraser, president of Shell Union Oil Company; Frank W. Abrams, chairman of Standard Oil Company of New Jersey; Willis H. Booth, director of Commercial Solvents Corporation; F. B. Davis, jr., chairman, United States Rubber Company, and Philip D. Reed.

The Conference Board, founded in 1916, is an independent and non-profit institution for research and education in the fields of economics and business.

A.P.I. Releases Public Relations Brochure

The American Petroleum Institute last week released a twenty-two page brochure entitled "Winning More Friends for Your Business" as the first step in its campaign to acquaint the public with the importance of the oil industry to the nation.

Involved in the drive are some 34,000 oil and related companies, which are pushing the campaign at local levels. The brochure explains the reasons for the educational campaign and contains a number of workable, practical and effective suggestions for use in all forms of media.

N.A.M. Sets Labor Conference for June 9

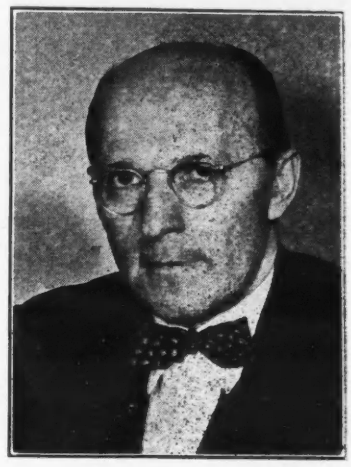
The National Association of Manufacturers will hold its twelfth national Institute of Industrial Relations at Saranac Lake, N. Y., from June 9 through June 13.

Spice Traders Vote Fund For New Research Institute

The immediate creation of a spice research and development institute to develop new and better uses for spices was voted by members of the American Spice Trade Association at its forty-first annual convention, held in the Astor hotel, New York, May 5-7.

The institute is to be originated and supported by assessment of members of the association, with the establishment of an initial fund of $25,000. The actual research and development work will be turned over to a commercial laboratory, it was planned, which will conduct its investigations under the direction of a committee of five scientist-members of the association.

The committee, with Dr. Oliver J. Fiala, of Durkee Famous Foods, New York, as chairman, will be composed of Dr. John M. Fogelberg, R. T. French Company, Rochester, N. Y.; Dr. A. N. Prater, Gentry, Inc., Los Angeles; Walter Kuhl, McCormick & Co., Baltimore, and Charles F. Mayer, H. J. Mayer & Sons, Chicago.



Ernest H. Winter

Winter Reelected

Ernest H. Winter, president of H. P. Winter & Co., and of Winter & Lauerman, Inc., both New York, was reelected president of the association. Harry J. Schlichting, of B. H. Old & Co., New York, and Lester W. Jones, of McCormick & Co., were re-elected treasurer and vice-president, respectively.

In the general sessions held on each of the three days discussions were concerned primarily with the regulations concerning the shipment of spices to the United States and the current spice supply and price picture.

It was brought out that the campaign to educate foreign shippers as to fumigation, packing and storing spices so as to meet the requirements of the United States Government was progressing satisfactorily, although much work need still be done along those lines.

Mostly Normal Supply

Most spices and seeds, it was said, were in normal supply, with the exception of pepper, nutmeg and mace. The supply of these latter three was described as "good but not yet returned to normal."

It was revealed that there was little information regarding the possibilities of the future as far as pepper was concerned because of the current turmoil in the East Indies. Presented as an example of the chaotic condi-

—Continued on page 70

N.A.I.D.M. Sets Convention Program

The National Association of Insecticide and Disinfectant Manufacturers will hold its thirty-third mid-year meeting on June 9-11 at the Edgewater Beach hotel, Chicago. There will be morning and afternoon sessions on June 9; a session in the morning and committee meetings in the afternoon of June 10, and the concluding session during the morning of June 11. Program for the meeting will be as follows:

Monday, June 9

Address of president, by N. J. Gothard, Sinclair Refining Company.

Report of secretary, by H. W. Hamilton, white tar division, Koppers Company.

"Current Legislation," by W. J. Zick, B. Heller & Company, Chicago.

"Iowa Fly Control Program," by Dr. Howard Gunderson, extension entomologist, Extension Service, Ames, Ia.

Symposium on Disinfectants, L. J. Oppenheimer, West Disinfectant Company, L.I.C., N. Y., leader.

Report of Insecticide Scientific Committee, by Dr. Alfred Weed, John Powell & Company, New York.

"The Future of Household Insecticides," by Dr. S. A. Rohwer, assistant chief, Bureau of Entomology & Plant Quarantine, U. S. Department of Agriculture.

"DDT Surface Residues," by H. A. U.

—Continued on page 47

Lind to Give Remsen Memorial Lecture

Dean Samuel Colville Lind, of the University of Minnesota Institute of Technology, will give the 1947 Remsen Memorial Lecture, sponsored by the Maryland section of the American Chemical Society on May 23 in Levering Hall of Johns Hopkins University, Baltimore.

Dean Lind, whose presidential address at the society's national meeting in 1940 foreshadowed the imminent harnessing of atomic power, will speak on "Fifty Years of Atomic Research," reviewing the major scientific developments leading to the release of nuclear energy and suggesting some possible future advances.

General Aniline Holds Research Conference

General Aniline & Film Corporation, New York, held its semi-annual research and development conference last week at Skytop, Pa. Scientific papers covering a wide variety of technical subjects relating to dyestuffs, photographic materials and other company products were delivered to the group, which numbered 140 members of the technical staff.

Association Meeting Dates

American Association of Cereal Chemists, President hotel, Kansas City, Mo., May 19-23.

American Drug Manufacturers Association, Homestead, Hot Springs, Va., June 9-12.

American Oil Chemists Society, New Orleans, May 20-22.

American Plant Food Council, Homestead, Hot Springs, Va., June 13-15.

American Society for Testing Materials, Chalfonte-Haddon hotel, Atlantic City, N. J., June 16-20.

American Water Works Association 1947 Conference, Auditorium, San Francisco, July 21-25.

British Chemical Society, London, July 15-17.

Chemical Institute of Canada, Banff Spring hotel, Banff, Alberta, June 8-10.

Chemical Warfare Association, Edgewood Arsenal, Md., June 23-24.

International Congress of Pure and Applied Chemistry, London, July 11-24.

Metal Powder Association, Waldorf-Astoria hotel, New York, May 27.

National Association of Insecticide and Disinfectant Manufacturers, Edgewater Beach hotel, Chicago, June 9-11.

National Association of Purchasing Agents, Waldorf - Astoria hotel, New York, June 2-4.

National Fertilizer Association, Essex and Sussex hotel, Spring Lake, N. J., June 20-21.

National Foreign Trade Council, St. Louis, Oct. 20-22.

National Institute of Governmental Purchasing, Pennsylvania hotel, New York, September 8-11.

National Paper Box Manufacturers Association, Traymore hotel, Atlantic City, N. J., May 18-21.

National Petroleum Association, Traymore hotel, Atlantic City N. J., September 17-19.

Proprietary Association of America, Claridge hotel, Atlantic City, N. J., May 19-21.

Synthetic Organic Chemical Manufacturers Association, Seaview Country Club, Absecon, N. J., May 26-28.

Zemmer Names Waters Technical Director

Zemmer Company, Pittsburgh, announces the appointment of Kenneth L. Water as its technical director. Dr. Waters, formerly a pharmaceutical research specialist in the Mellon Institute, has been active in revisional work of the United States Pharmacopoeia. Prior to his association with the Mellon Institute, Dr. Waters was with the Federal Food and Drug Administration.

Porcelain Enamel Inst. Forum Set for Sept. 10

The Porcelain Enamel Institute will hold its ninth annual forum at Ohio State University, Columbus, Ohio, September 10-11-12. Official headquarters will be the Deshler-Wallick Hotel, Columbus.

MERCK IS SERVING THE INSECTICIDE INDUSTRY AS A BASIC AND PRIME SOURCE OF SUPPLY FOR DDT

An aerial view of the Main Plant of Merck & Co., Inc. at Rahway, N. J.

As expanding facilities come into operation and current commitments are provided for, we are finding increasing opportunities to co-operate with manufacturers of DDT insecticides.

The product we offer is —

DDT

TECHNICAL

(dichloro-diphenyl-trichloroethane)

Setting Point 89° C. Minimum
For Manufacturing Purposes Only

Write us for prices and let us know your requirements. Please address your inquiry to the Insecticide Products Department, Merck & Co., Inc., Rahway, N. J.

DDT TECHNICAL

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Current Market Quotations Chemicals and Related Materials

May 8, 1947

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, Arabic).

Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - .12
5 and 10 gals., works....lb. .14 - .15
tanks .....lb. .08 - .09

Acetaldol (see Aldol).

Acetamide, CP, fib. dms.....lb. .65 - .75
tech., fib. dms.....lb. .33 - .43

Acetanilide, tech., cryst., powd., bbls., c.l....lb. .19 - ..
l.c.l. .....lb. .20 - .23
kgs .....lb. .25 - —

USP, cryst., powd., bbls., 2,000-lb. lots..lb. .40 - .41
smaller lots.....lb. .41 - .43

Acetic anhydride, dms., c.l., frt. alld..lb. .11½- —
l.c.l., frt. alld.....lb. .13 - —

Acetoacetanilide, bbls., dms...lb. .60 - —

Acetone, CP, dms., c.l., divd..lb. .08½- .10½
l.c.l., divd. .....lb. .09 - .11½
tanks, divd. .....lb. .07 - .09

Methyl (see M).

Acetonitrile, dms., c.l., works.lb. .45 - —
l.c.l., works.....lb. .50 - —
5-gal. lots, works.....lb. .55 - —
less than 5-gal. lots, works .lb. .60 - —

Acetophenetidin, USP, bbls., kgs., 1,000-lb lots..lb. 1.00 - —
dms .....lb. 1.08 - 1.10

Acetophenone, cns., dms.....lb. 1.50 - 1.75

Acetyl chloride, cbys., works..lb. .60 - —

Acid abietic, dms., c.l., wk..lb. .07½- —

Acetic, com'l or redist., 28%, bbls..100 lbs. 3.78 - 4.08
50%, bbls.....100 lbs. 7.58 - 7.81
70%, bbls.....100 lbs. 9.45 - 9.70
80%, bbls.....100 lbs.10.80 -11.05
glacial, synthetic, C.P., dms., works..100 lbs.13.20 -13.75
tanks .....100 lbs. 7.62 - 7.92
tech., works.....100 lbs. 9.90 -10.20
tanks, works.....100 lbs. 7.62 - 8.12
USP, dms., works..100 lbs.11.60 -11.65

USP, 36%, cbys.....lb. .1000- .1005

Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and casks are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, special, USP, bbls., makers, primary distrib., point of ship't, 100-lb. lots..lb. .50 - —
smaller lots.....lb. .51 - .64

standard USP, fine, cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis. lb. .45 - .50

Freight equaled, shipment identical quantity over standard routes, from N. Y. City, Phila., Midland, Mich., Chicago and St. Louis.

Aminoacetic, NF, cryst., powd., bbls., frt. adjusted..lb. 1.50 - 1.67

Anthranilic, resub., bbls.....lb. 2.00 - 2.30
tech., bbls. .....lb. .90 - —

Arsenous, tech. (see Arsenic, white).

USP, powd., dms., kgs....lb. .20 - .22

Ascorbic, USP, dms., 500-kilo lots..kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —

bots., kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —

Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75

Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,999 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —

USP, bbls., 4,000 lbs. up..lb. .53 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59

dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59

Betaoxynaphthoic, bbls., works. lb. 1.05 - —

Boric, tech., 99.5%, gran., bulk, ton.95.50 -100.00
paper bgs., c.l., frt. alld. ton.99.00 -105.00
ton lots, ex whse, N. Y. or Chi..ton.117.50 - —
less ton lots, same basis. ton.122.50 - —
bbls., c.l., frt. alld..ton.119.00 -123.50
ton lots, ex whse., N. Y. or Chi..ton.137.50 - —
less ton lots, same basis. ton.142.50 - —
cryst., powd., paper bgs., c.l., frt. alld..ton.104.00 -108.50
ton lots, ex whse. N. Y. or Chi..ton.122.50 - —
less ton lots, same basis..ton.127.50 - —
bbls., c.l., frt. alld.ton.124.00 - —
ton lots, ex whse., N. Y. or Chi..ton.142.50 - —
less car lots, same basis..ton.147.50 - —

USP $25 per ton higher.

Broener's, bbls.....lb. 1.22 - —

Butyric, 99%, dms., c.l., works. lb. .32 - —
l.c.l., same basis.....lb. .33 - —

Cacodylic, bots.....lb.13.00 -16.50

Camphoric, synthetic, cns...lb. 7.00 - 7.25

Caprylic, 99%, dms.....lb. .50 - —

Capric, tech., ref. dms.....lb. .45 - —

Castor oil, split, ref. dms...lb. .34½- —

Chloroacetic, chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works .....lb. .03½- .04½
tanks, works.....lb. .02½- —

Chromic, 99½-99¾%, dms., c.l., lb. .20 - —
l.c.l. .....lb. .20½- .21

Cinnamic, refd., bots.....lb. 3.00 - 4.00

Citric, anhyd., gran., fine gran., dms., c.l..lb. .24½- —
l.c.l., 10,000 lbs., 1 ship't. lb. .25 - —
smaller lots, bbls. .....lb. .25½- —
kgs. .....lb. .26 - —

Anhydrous citric acid powder, ½c. per lb. higher.

USP, cryst., bbls., c.l.....lb. .25 - —
l.c.l., 10,000 lbs., 1 ship't. lb. .25½- —
smaller lots, bbls.....lb. .26 - —
kgs. .....lb. .26½- —
gran., fine gran., bbls., c.l. lb. .22 - —
l.c.l., 10,000 lbs., 1 ship't..lb. .22½- —
smaller lots, dms...lb. .23 - —
kgs. .....lb. .23½- —

USP citric acid powder, ½c. per lb. higher.

Cleve's, bbls. .....lb. .65 - 1.00

Coconut oil, dist., dms.....lb. .28 - —

Corn oil, s.d., dms., works..lb. .25½- .25¾

Cottonseed oil, s.d., dms....lb. .25½- .25¾

Cresylic dom., coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald..gal. 1.16 - —
l.c.l., same basis....gal. 1.19 - —
tanks .....gal. 1.10 - —

Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref..gal. .490 - —
Sewaren, N. J., ref. gal. .616 - —
1-19, Cal., ref....gal. .510 - —
Sewaren, N. J., ref. gal. .636 - —
tanks, divd. .....gal. .586 - —

medium grade (200°-246°), dms., 20 Cal., ref..gal. .50 - —
Sewaren, N. J., ref. gal. .636 - —
1-10, Cal. ref....gal. .570 - —
Sewaren, N. J., ref. gal. .696 - —
tanks, divd. .....gal. .646 - —

Crotonic, bbls., Canadian, wks. lb. .25 - —

Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works .....lb. .85 - .95

Diethylbarbituric (see Barbital).

F (see Acid, monosulphonic).

Formic, 85%, cbys., c.l., wks.lb. .12 - —
l.c.l., works.....lb. .12½- .14½
90%, cbys., c.l., works ...lb. .12½- —
l.c.l., works.....lb. .13 - .14½

Fumaric, tech., bbls., dms...lb. .27 - .31

Gallic NF V, 1,000-lb. lots, bbls..lb. 1.40 - —
smaller lots.....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots. lb. 1.23 - —
smaller lots.....lb. 1.26 - 1.28

Gamma, bbls.....lb. .97 - —

Gluconic, tech., 50%, bots...lb. .23 - .31
dms. .....lb. .14 - —
kgs. .....lb. .16 - —

Glycolic (see Acid, hydroxyacetic).

H, bbls., works.....lb. .50 - —

Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.64
57%, cbys.....lb. 2.83 - 2.85

Hydrobromic, medicinal, 48%, cbys., divd. E..lb. .48 - —
tech., 48%, cbys., same basis. lb. .45 - —
34%, cbys., same basis...lb. .35 - .37

Hydrochloric (see Acid, Muriatic).

Hydrocyanic, cyls., works...lb. .80 - 1.00
NF, dilute, 2%, 5-lb. lots..lb. .30 - .40

Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19½
dmjn. .....lb. .21 - .23
tanks, works.....lb. .16 - —
30%, rubber dms., works..lb. .08 - .09
48%, rubber dms., works..lb. .12 - —
52%, rubber dms., works..lb. .12½- —
60%, rubber dms., works..lb. .13½- —

Hydrofluosilicic, 30-35%, bbls.lb. .06 - .09

Hydroxyacetic, 70%, tech., bbls., non-return, Phila..lb. .084 - —
tanks, Belle, W. Va., acid basis..lb. .085 - —

Hypophosphorous, USP, djns.lb. .75 - .77

Lactic, edible, 50%, bbls., 20 or more..lb. .14½- —
smaller lots.....lb. .15 - —
80%, bbls., 5 or less.....lb. .24½- .24¾
plastic grade, 50%, bbls., 20 or more..lb. .14½- —
10 or less.....lb. .14¾- .15¼
80%, bbls., 5 or less.....lb. .26 - .26½
tech., dark, 22%, bbls., c.l., works..100 lbs. 4.00 - 4.55
l.c.l., works....100 lbs. 4.60 - 4.75
cbys., works.....100 lbs. 5.10 - —
44%, bbls., c.l., works..... 100 lbs. 7.75 - 8.25
l.c.l., bbls., works..... 100 lbs. 8.25 - 8.50
cbys., works.....100 lbs. 8.90 - 9.15
light, 22%, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., works....100 lbs. 4.15 - —
cbys., works.....100 lbs. 5.15 - —
44%, bbls., c.l., works..... 100 lbs. 7.30 - —
l.c.l., works....100 lbs. 7.55 - —
cbys., works.....100 lbs. 8.55 - —

USP XII, 80%, cbys.....lb. .54 - .57

USP VIII, 70%, cbys.....lb. .52 - .55

Laurent's, bbls.....lb. .03 - —

Lauric, dist., 85%, dms.....lb. .37½- —
60%, dms. .....lb. .32 - —

Linseed oil, light, dms.....lb. .47¾- .48¼

Maleic, powd., dms.....lb. .26 - .30

Anhydride (see M).

Malic, powd., kgs.....lb. .47 - —

Mandelic, NF, dms., 1,000-lb. lots..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30

Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit .....lb. .0085- .009

Molybdic, kgs., works.....lb. .95 - 1.10

Monochloracetic, tech., flakes, 98-97%, dms..lb. .17 - .18
purified, flake, 99%, dms...lb. .21 - .22½

Monosulphonic, bbls. .....lb. 1.50 - —

Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - 1.70
l.c.l., E. works...100 lbs. 1.90 - 2.60
tanks, works .....ton.18.00 -18.20
20°, cbys., c.l., E. works.... 100 lbs. 1.85- 2.00
tanks, E. works.....ton.20.00 -21.00
22°, cbys., c.l., E. works... 100 lbs. 2.35 - 2.50
tanks, E. works.....ton.22.00 -26.00

CP, USP, consumers, cbys. extra..lb. .06 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —

Myristic, dist., dms.....lb. .40 - —

Naphthenic, 220-260 acidity, dms., extra, works..lb. .12 - —
tanks, works .....lb. .09 - —
230-240 acidity, dms., extra, works..lb. .17 - —
tanks, works .....lb. .14 - —

Neville and Winthers, dms...lb. .75 - —

Nicotinic, USP, dms., works.. kilo. 7.00 - 7.30

Nicotinic amide (see Nicotinamide).

Nitric, 36°, cbys., c.l., E. works. 100 lbs. 5.00 - —
l.c.l., 25, E. works.100 lbs. 5.30 - 6.30
38°, cbys., c.l., E. works.. 100 lbs. 5.50 - —
l.c.l., works.....100 lbs. 6.00 - 6.25
40°, cbys., c.l., E. works.... 100 lbs. 6.00 - 6.50
l.c.l., works.....100 lbs. 6.50 - 7.10
42°, cbys., c.l., E. works.... 100 lbs. 6.50 - 7.00
l.c.l., works.....100 lbs. 7.00 - 7.25

CP, USP, consumers, cbys. extra..lb. .08 - —
9-lb. bots., cs., extra..lb. .10 - —
dealers, cbys., extra....lb. .06½- —
9-lb. bots., cs., extra.lb. .08½- —

fuming, 20%, tanks, E. works. ton.19.50 -20.50

Tannic, tech., bbls., dms..lb. .93 - .94

USP, fluffy, bbls., 1,000 lbs.. lb. 1.45 - —
smaller lots .....lb. 1.47 - 1.50
powder, bbls., 1,000 lbs. 1.25 - —
smaller lots.....lb. 1.27 - —

Tartaric, USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't..lb. .49¼- —
smaller lots, bbls..lb. .50 - —
dms. .....lb. .52 - .53
kgs. .....lb. .50¾- —

Thioglycolic, refined, bbls., cbys., basis 100%..lb. 1.95 - 2.00
tech., bbls., cbys.....lb. 1.40 - —

Tobias, bbls. .....lb. .60 - —

Trichloroacetic, bots.....lb. 2.00 - 2.50

Tungstic, CP, 100-lb. pkgs..lb. 3.10 Nom.
pure, 100-lb. kgs.....lb. 2.80 - Nom.

Aconite leaves, bls.....lb. .75 - .80
Root, bls. .....lb. 1.10 - 1.15

Aconitine, amorph., mild, bots.oz.32.50 - —
cryst., potent, bots.....oz.95.00 - —

Acrylonitrile, dms., c.l., works lb. .29½- —
l.c.l., works .....lb. .30¼- .42½
tanks, works.....lb. .28½- —

Adeps lanae, USP, anhyd., cosmetic, dms., works.lb. .27 - .29
pharmaceutical, dms., works, lb. .25 - .27

Adonis vernalis herb, bls.....lb. .65 - .70

Agar .....lb. 2.75 - 3.00

Agaric, white, bls.....lb. 2.75 - 3.00

Agrimony herb, bls.....lb. .40 - .45

Albumen, blood, dark (see Blood, soluble).
light, dms., l.c.l.....lb. .70 - —
egg, edible, cryst., gran., bbls. lb. 1.90 - 2.00
powd., bbls. .....lb. 1.95 - 2.05
tech., cryst., bbls.....lb. 1.15 - 1.80

Alcohol, allyl, dms., c.l., divd.lb. .21½- —
l.c.l., divd. .....lb. .22 - —
tankcars, divd. .....lb. .20 - —

Amyl ex pentane, dms., c.l., frt. alld. E. of Miss. R. lb. .161 - —
l.c.l., frt. alld.....lb. .171 - —
tanks, frt. alld.....lb. .151 - —
(see also Fusel oil, ref.).

Benzyl, cns. .....lb. .70 - .75
dms. .....lb. .65 - —

Butyl, normal, ferment, Ill., Ind. prod., dms., c.l., frt. alld..lb. .30½- —
l.c.l., frt. alld. E...lb. .31½- —
tanks, frt. alld. E...lb. .29 - —
tankwagon, frt. alld..lb. .29½- —
other production, dms., c.l., frt. alld. E..lb. .30½- —
l.c.l., frt. alld. E...lb. .31½- —
tanks, frt. alld. E....lb. .29 - —
synthetic, dms., c.l., frt. alld. E..lb. .15½- —
l.c.l., frt. alld. E.....lb. .16 - —
tanks, frt. alld. E.....lb. .14½- —

Normal butyl alcohol prices in West, ½c. per lb. higher.

secondary, dms., c.l., divd.lb. .11 - —
l.c.l., divd.....lb. .11¼- —
tanks, divd. .....lb. .09½- —
tertiary, denat., dms., c.l..lb. .12¾- —
l.c.l., dms. .....lb. .13 - —
tanks .....lb. .11 - —

Capryl, dms., c.l., works....lb. .17¼- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16 - —

Cetyl, dom., CP., fiber ctns., 1,000 lbs..lb. 2.25 - —
smaller lots.....lb. 2.30 - 2.85

Cinnamic, bots. .....lb. 3.00 - —

Denatured, CD14, dms., c.l., works, E..gal. 1.04½- —
l.c.l., works, E.....gal. 1.07¼- 1.11½
tanks, E., divd.....gal. .97¼- —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf. dms., c.l., E. works..gal. 1.05 - —
l.c.l., works, E.....gal. 1.08 - 1.12
tanks, E. works.....gal. .96 - —
Anhydrous 7c. per gal. higher.

SD2B, dms., c.l., wks., E.gal. 1.05 - —
l.c.l., works, E.....gal. 1.08 - 1.12
tanks, E., works.....gal. .98 - —

SD23H, dms., c.l.....gal. 1.03¼- —
l.c.l., works, E.....gal. 1.06¼- 1.10½
tanks, E. works.....gal. .96¼- —

SD29, denatured, with acetaldehyde, dms., c.l., E. works. gal. 1.05 - —
l.c.l., works, E.....gal. 1.09 - 1.14
tanks, E. works.....gal. .98 - —

When any of the several SD39 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., works, E..gal. 1.05½- —
l.c.l., works, E.....gal. 1.08½- 1.12½
tanks, E. works.....gal. .96½- —

tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone-free, dms., c.l., divd..lb. .13 - .15½
l.c.l., divd. .....lb. .13½- .16½
tanks, divd. .....lb. .11½- .14
tech., dms., c.l., divd.....lb. .14½- —
l.c.l., divd. .....lb. .15½- —
tanks, divd. .....lb. .13 - —

Ethyl, 190 pf., dms., c.l., works. gal.18.15 - —
l.c.l., works .....gal.18.19 -18.24
tanks .....gal.18.08 - —

absolute, dms., c.l., wks...gal.19.12 - —
l.c.l., works .....gal.19.16 -19.21
tanks .....gal.19.05 - —

Ethylhexyl, dms., c.l., works.lb. .26 - —
l.c.l., works .....lb. .26 - —
tanks, works .....lb. .24 - —

Furfuryl, tech., cns., works.lb. .35 - —
dms., c.l., works.....lb. .22½- —
l.c.l., works .....lb. .25 - —
tanks, works .....lb. .19 - —

Isoamyl (see Carbinol, isobutyl).

Isobutyl, refd., dms., works.lb. .13 - —
tanks, works .....lb. .12 - —

Isopropyl, refd., 91%, dms., incl., c.l., divd..gal. .44 - .47½
l.c.l., divd. .....gal. .47 - .50½
tanks, divd. .....gal. .37 - .38
99%, dms., incl., c.l., divd.gal. .47½- .50½
l.c.l., divd. .....gal. .50½- .53
tanks, divd. .....gal. .40½- —

Methyl (see Methanol).

Methylamyl (see Carbinol methylisobutyl).

Octyl, perfumer's grade, bots.lb. 4.00 - 4.25

Phenylethyl, dms. .....lb. 2.30 - 2.50

Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis. lb. .60 - .68

Propyl, normal, dms., works, gal. .82 - —
tanks, works .....gal. .75 - —

Tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .47 - —
dms., c.l., Waverly, N. Y..lb. .49 - —
l.c.l., same basis.....lb. .44 - —
tanks, same basis.....lb. .38 - —

Aldol, dms., works.....lb. .15 - —
denaturing grade, dms....gal. 1.30 - —

Aletris root, bgs.....lb. 2.00 - 2.25

Algarobilla, c.l., ex dock.... long-ton. No prices.

Algin, bbls., fib. dms.....lb. .76 - 1.00

Alizarin (see Red, alizarin).

Alkanet, root, bgs.....lb. .85 - .90

Allspice, Mexican, futures, bgs. lb. .16 - .16½

Allyl bromide, cbys., 5,000 lbs., works..lb. .09 - —
smaller lots, works.....lb. 1.05 - 1.10

Chloride, dms., c.l., divd....lb. .14 - —
l.c.l., divd. .....lb. .14¼- —
tanks, divd. .....lb. .12½- —

Aloe, Cape, cs.	lb.	.42 - .43
Curacao, kgs.	lb.	.42 - .43
Socotrine, kgs.	lb.	.47 - .48
Aloin, bbls., dms., kgs.	lb.	4.50 - 4.60
Alphanaphthol, bbls.	lb.	.57 - .58
Alphanaphthylamine, bbls.	lb.	.35 - .35¼
Alphanaphthylthiourea, fib. dms., works, frt. alld.	lb.	4.00 - 4.40
Alphapicoline, ret. dms., works, frt. equald.	lb.	.24 - .27½
Alphapinene, wks., South, tanks, gal.		1.15 - —
Alphaterpineol, dms., c.l., works, lb.		.1340- —
l.c.l., works	lb.	.1390- —
tanks, works	lb.	.1200- —
Alphatocopherol, ampuls	kilo.	750.00 - —
Althea root, NF, peeled, bls.	lb.	.40 - .45
Alum, ammonia, burnt, USP, bbls., kgs.	lb.	.16 - .18
gran., bbls., works	100 lbs.	4.00 - —
lump, bbls., works	100 lbs.	4.25 - —
powd., bbls., works	100 lbs.	4.40 - —
Potash, gran., bbls., works, 100 lbs.		4.25 - —
lump, bbls., works	100 lbs.	4.50 - —
powd., bbls., works	100 lbs.	4.65 - —
Potash-chrome, bbls.	lb.	.12½- .15
Soda, bbls., c.l., works	100 lbs.	3.25 - —
l.c.l., divd.	100 lbs.	4.25 - 5.00
Alumina, classified, grade, grd., kgs., works	lb.	.35 - .37
top grade, ground, kgs., works, lb.		.60 - .67
unclassified, ground, kgs., works	lb.	.10¼- .40
Acetate, basic solution, 24%, bbls., l.c.l., works	lb.	.11 - —
20%, bbls., l.c.l., works	lb.	.10 - —
Chloride, anhyd., com'l, dms., c.l., works	lb.	.10 - .11
l.c.l., works	lb.	.10¼- —
cryst., com'l, dms., c.l., works, lb.		.0[illegible] - —
l.c.l., works	lb.	.06½- .06¾
solution, 32°, cbys., c.l., wks, lb.		.02¾- —
l.c.l., works	lb.	.03¼- —
Alumina fluoride, tech., bbls.	lb.	.25 - —
Formate, solution, 12-20° Be. bbls., c.l., works, f.o.b. equaled Phila. and Chi.	lb.	.09½- —
l.c.l., works, same basis, lb.		.10 - —
Hydrate, heavy, bgs., c.l., works	ton.	56.00 - —
l.c.l., works	ton.	76.00 - —
light, bgs., divd.	lb.	.17 - —
Hydroxide, gel tech., min. 15% lbs. or more, f.o.b. ship't point	lb.	.03 - .03½
ton lots, same basis	lb.	.03¼- .06¼
smaller lots, same basis, lb.		.03¾- .04
9-9½% Al_2O_3, fib. dms., works	lb.	.17¾- —
contract, works	lb.	.16¾- —
14-15% Al_2O_3, fib. dms., Al (OH_3), dms., 10,000 wks	lb.	.20¾- —
contract, works	lb.	.19¾- —
dried, USP XII, fib. dms., works	lb.	.78 - —
contract, works	lb.	.75 - —
powder, tech. (see Alumina hydrate).		
USP IX, bbls., dms	lb.	.15 - .17
Laurate, precip., bbls.	lb.	.25 - .26
Naphthenate, 1.7% Al, 50-gal. dms., works	lb.	.19 - —
Oleate, dms., contract	lb.	.43½- —
Resinate, precip., dms	lb.	.20½- —
Stearate, dibasic, ctns., c.l.	lb.	.46 - —
l.c.l.	lb.	.47 - —
monobasic, ctns., c.l.	lb.	.46 - —
l.c.l.	lb.	.47 - —
tribasic, ctns., c.l.	lb.	.51 - —
less tan quantities	lb.	.53 - —
Sulphate, com'l bags., c.l., works, frt. equald.	100 lbs.	1.15 - 1.30
l.c.l., works, frt. equald.	100 lbs.	1.40 - 1.50
bbls., c.l., works frt. equald.	100 lbs.	1.55 - 1.60
Alumina sulphate, com'l, bbls., l.c.l., works, frt. equald.	100 lbs.	1.95 - 2.00
iron-free, bgs., c.l., works,	100 lbs.	1.95 - 2.25
l.c.l., works	100 lbs.	2.35 - 2.50
Trihydrate, heavy (see Alumina hydrate).		
Aluminum, 98-99%, c.l.	lb.	.15 - —
l.c.l.	lb.	.15 - .16
paste, lining, extra fine, 200-lb. dms.	lb.	.58 - .60
ink, 150-lb. dms	lb.	.71 - —
standard, 200-lb. dms	lb.	.88 - —
powder, lining, extra fine, 150-lb. dms.	lb.	.93 - —
litho, 150-lb. dms	lb.	.60 - —
standard, 200-lb. dms.	lb.	.62 - —
rubber comp., 200-lb. dms.	lb.	.42 - —
unpolished, stand., dms.	lb.	.38 - —
varnish, stand., 300-lb. dms.,	lb.	.42 - —

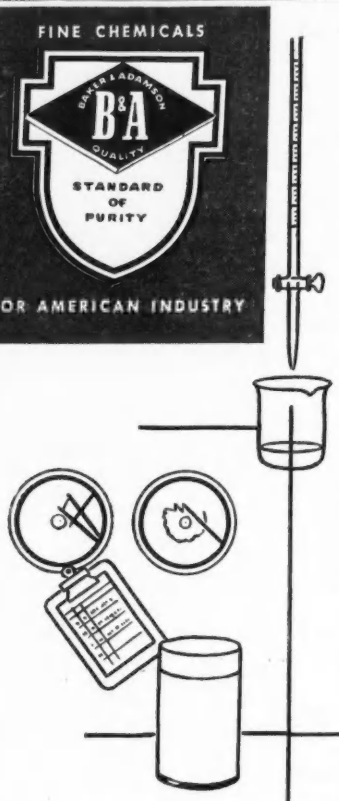
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,490 lbs., 2c. for 1,500 to 4,990 lbs., 3c. for 3,000 to 20,000 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins	oz.	8.50 -12.00
Aminoethylpropanol, cns., dms.,	lb.	.50 - .60
Aminopyrine, bots., dms	lb.	4.50 - 4.75
Ammonia acetate, reagent, crystals, bbls.	lb.	.34 - —
purified, bbls.	lb.	.32 - —
Anhydrous, fertilizer, tankcars, works, frt. equald.	ton.	59.00 - —
pure, cyls., extra	lb.	.16 - —
refrigeration, tanks, works	ton.	61.50 - —
Ammonia aqua, dms., c.l., works, lb.		.03 - .0[illegible]
l.c.l., works	lb.	.03¼- —
tanks, works (NH_3 content).	ton.	65.00 - —
Benzoate, USP, dms., kgs., 4,000 lbs., up, frt. alld.	lb.	.43 - —
smaller lots, frt. alld.	lb.	.44 - .4[illegible]
Biborate, gran., powd., bbls., c.l., works	ton.	332.00 - —
ton lots, works	ton.	388.50 - —
less ton lots, works	ton.	343.50 - —
Bicarbonate, dms., extra, c.l.	lb.	.06¾- —
Bichromate, bbls., works	lb.	.26 - .3[illegible]
Bifluoride, bbls	lb.	.15 - .1[illegible]
Bromide, gran., NF, bbls.	lb.	.28 - —
dms.	lb.	.29 - .3[illegible]
Powdered ammonia bromide 10c. per lb. higher.		
Carbonate, USP, lump, dms.	lb.	.08¼- .0[illegible]
powdered, 1c. per lb. higher.		
Chloride, tech. (see Ammoniac, sal).		
USP, gran., bbls., dms., kgs.,	lb.	.13 - .1[illegible]
Citrate, dibasic, bbls.	lb.	.75 - —
dms.	lb.	.80 - .8[illegible]
Fluoride, bbls.	lb.	No stocks
Hydroxide (see Ammonia aqua).		
Hypophosphite, NF, dms.	lb.	1.25 - 1.2[illegible]
Iodide, NF, jars	lb.	3.90 - 3.9[illegible]
Linoleate, 80%, plastic, dms., works	lb.	.40½- —
kgs., works	lb.	.42½- —
Molybdate, c.p., cryst., kgs.	lb.	1.26 - 1.3[illegible]
fine cryst., bbls., kgs.	lb.	.84 - .8[illegible]
purified, dms.	lb.	1.10 - 1.1[illegible]
Nitrate, fertilizer grade, Canadian, 32.5% nitrogen, bgs., same N unit price, delivered, as Ammonia sulphate, bgs., c.l., shipping point	ton.	57.00 - —
bulk, same basis	ton.	51.00 - —
tech., bgs., works	100 lbs.	4.35 - 4.5[illegible]
bbls., works	100 lbs.	4.65 - —
Nitrate-limestone, 20.5% N, bgs. Hopewell, Va.	ton.	33.00 - —
Oleate, dms.	lb.	.14 - —
Oxalate, fine gran., bbls.	lb.	.23 - —
dms.	lb.	.25 - .2[illegible]
Pentaborate, gran., bbls., c.l., works	ton.	230.00 - —
ton lots, works	ton.	248.50 - —
less ton lots	ton.	233.50 - —
Ammonia pentaborate powder, $10 per ton higher.		
Perchlorate, kgs.	lb.	No stocks.
Persulphate, kgs.	lb.	.26½- .2[illegible]
Phosphate, dibasic, NF V, bbls. kgs.	lb.	.37 - .3[illegible]
tech., bgs., c.l., works	lb.	.07 - —
l.c.l., works	lb.	.07¾- —
monobasic, pure, bbls.	lb.	.39 - .41
tech., bgs., c.l., works	lb.	.07 - —
l.c.l., works	lb.	.07¾- .08
Salicylate, NF, dms., kgs.	lb.	1.25 - —
Silicofluoride, bbls.	lb.	.15 - .16
Stearate, anhydrous, dms.	lb.	.34 - —
paste, dms.	lb.	.06½- —
Sulphamate, bbls., dms., works.	lb.	.18 - .20
Sulphate, bulk, producing ovens.	ton.	30.00 -32.00
Sulphide, liquid, 40-45% basis. 100%, dms., c.l., works.	lb.	.09 - —
l.c.l., divd.	lb.	.15 - —
tanks, divd.	lb.	.07¼- —
red, 48%, cbys., works	lb.	.08 - —
dms., works	lb.	.06 - —
yellow, 33%, cbys., works	lb.	.08 - —
dms., works	lb.	.06 - —
Sulphocyanide, pure, bbls.	lb.	.60 - .68
tech., bbls.	lb.	.17 - .19
Thiocyanate (see Ammonia sulphocyanide).		
Thioglycollate, highly purified, 100% basis, bbls.	lb.	7.10 - 8.25
Ammoniac gum (see Gum, ammoniac).		
Sal, gray, bbls., c.l., works, 100 lbs.		7.00 - —
l.c.l., works	100 lbs.	7.40 - —
white, gran., bbls., c.l., works. 100 lbs.		4.75 - —
l.c.l., same basis.	100 lbs.	5.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., divd.	lb.	.23½- —
l.c.l., divd.	lb.	.26¾- —
tanks, divd.	lb.	.24 - —
ex-pentane, dms., c.l., frt. alld. E. of Miss. R.	lb.	.22 - —
l.c.l., same basis	lb.	.23 - —
tanks, same basis	lb.	.21 - —
Alcohol (see Alcohol, amyl).		
Butyrate, dms.	lb.	.90 - 1.00
Chloride, mixed, tech., dms., c.l., works	lb.	.07 - —
l.c.l., works	lb.	.08 - —
tanks, works	lb.	.06 - —
Ether, dms., c.l., works	lb.	.095 - —
l.c.l., works	lb.	.102 - —
tanks, works	lb.	.085 - —
Nitrite, USP, bots.	lb.	1.72 - 1.95
Mercaptan, dms., works	lb.	1.10 - —
Salicylate, cns.	lb.	.77 - 1.27
Stearate, dms., works	lb.	.42 - .45
Anethol, com'l, dms., works	lb.	.657 - .68[illegible]
NF, dms.	lb.	.82 - .85
Angelica dom., atropurpurea root, bls.	lb.	1.30 - 1.40
imported, natural, bls.	lb.	2.45 - 2.55
Angostura bark, bls.	lb.	.65 - .66
Anilin oil, dms., c.l., works, frt. alld.	lb.	.13 - —
l.c.l., works, frt. alld.	lb.	.14 - —
tanks, works, frt. alld.	lb.	.12 - —
Salt, dms., works	lb.	.22 - .24
Anise, Argentine, bgs.	lb.	.30 - .31
Chinese, Star	lb.	.16 - .16
Cyprus, bgs.	lb.	.30 - .31
Mexican, bgs.	lb.	.32 - .33
Syrian, bgs.	lb.	.30 - .31
Turkish, bgs.	lb.	No stocks
Anisic aldehyde, dms.	lb.	2.20 - 3.00
cns., bots.	lb.	2.40 - 3.20
Annatto, paste, bxs.	lb.	.34 - .59
seed, bgs.	lb.	.19 - .20
Anthracene, 80-85%, bbls., works, lb.		.60 - —
90%, bbls., works	lb.	.81 - —
Anthraquinone, 99.5%, bbls.	lb.	.70 - —
Antimony butter (see Antimony chloride).		
Chloride, solut., cbys.	lb.	.17 - —
Metal, bulk, c.l., mines	lb.	.33 - .33
Needle, Bolivian, brown, 67% cs.	lb.	No prices.
Chinese, black, 70%, cs.	lb.	No prices.
Oxide, ceramic grade, bgs., c.l., works.	lb.	.26 - .27
l.c.l., works	lb.	.28¼- .29
paint grade, bgs., c.l., works.	lb.	.27½- .31
l.c.l., works	lb.	.28¾- .32
Salt, 65%, bgs., c.l., divd. E. of Miss. River	lb.	No stocks
Sulphide, 65-70%, bbls., c.l., works.	lb.	.22 - —
l.c.l., works	lb.	.24 - —
Antipyrine, bbls., kgs., ton	lb.	2.00 - —
smaller lots	lb.	2.10 - 2.20
Apomorphine, bots.	oz.	23.20 -23.70
Archil extract, bbls.	lb.	No stocks.
Areca nuts, powd., bbls.	lb.	.29 - .30
Arecoline hydrobromide, bots.	oz.	6.10 - 7.10
Argols, min. 70%, bgs., shipment ports, 100 kilos (100% purity).	lb.	35.00 -36.00
Arnica flowers, bbls.	lb.	2.10 - 2.20
Arrowroot, powd., bgs., bbls.	lb.	.14 - .15

FINE CHEMICALS

BAKER & ADAMSON B&A QUALITY STANDARD OF PURITY

FOR AMERICAN INDUSTRY



*For Your Fine Chemical Needs**

Rely on General Chemical's

Baker & Adamson Division

B&A AMMONIUM SULFATE *Purified*

Purified Ammonium Sulfate by B&A is a white granular product assaying 99% min. $(NH_4)_2SO_4$, which is eminently suitable for industrial microbiology and the preparation and manufacture of medicinals. This B&A purity product is *not* a coal tar derivative but a basic process chemical produced by B&A from virgin raw materials.

Low in iron, lead and arsenic, it provides a quality product for such exacting uses as: precipitation of proteins from serums and biologicals . . . as a source of nitrogen in synthetic media as in vitamin manufacture . . . medium for yeast culture in fermentation . . . treatment of surgical gut, etc.

In addition, its high purity will prove advantageous for other industrial applications, including: processing of animal bone glue; softening of casein-formaldehyde resins; production of aluminum alloys; ingredient of flame-proofing compositions, for paper, textiles, wood, etc.

B&A CADMIUM NITRATE, CRYSTAL *Reagent and Purified*

This B&A quality chemical is available in two high purity forms: the reagent, which assays 99% min. $Cd(NO_3)_2 \cdot 4H_2O$, and the purified, which assays 98%. Strict specifications and rigid production control result in materials consistently low in undesirable impurities in either grade. Thus, Industry has an excellent selection to choose from for such applications as: the preparation of pure cadmium oxide (used as an ingredient in certain petroleum polymerization catalysts and in fluorescent materials for lamp manufacture); the manufacture of cadmium yellow for coloring porcelain, pottery and glass; and such patented applications as in a solution for refining cracked petroleum distillates, as a catalyst for hydrogenation of oxides of carbon, and in preparing a catalyst for oxidation of hydrocarbons.

B&A SODIUM PHOSPHATE, DIBASIC *U. S. P.*

In the manufacture of saline laxatives and cathartics, urinary acidifiers, or other pharmaceuticals, when your process calls for U.S.P. Disodium Phosphate $(Na_2HPO_4 \cdot 7H_2O)$, you can depend upon Baker & Adamson to meet your production schedule month after month with a pure, crystalline product.

Made with all the priceless experience B&A has gained in 65 years of producing reagent chemicals to "decimal-point" purity, this material will answer food processing requirements, too. These include such varied applications as in the production of processed cheeses and ice cream, in producing quick cooking cereals, and as an ingredient in wine clarifying compositions, etc.

★

This is the fifth in a series of advertisements reviewing the B&A Fine Chemicals commercially available to American Industry today from the Baker & Adamson Division of General Chemical Company.

Scores of such purity products await your investigation. To learn more about these or other B&A Fine Chemicals that meet your requirements, write or 'phone the nearest B&A Sales and Technical Service Office at right.

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BAKER & ADAMSON DIVISION

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* Complete stocks carried here.

TARTARS*

Cream of Tartar

Rochelle Salts

Tartaric Acid

WILLIAM D. NEUBERG CO., INC.

Chemicals

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TELEPHONE LEXINGTON 2-3324

CABLE—"WILNEUBERG"

*Ask for Our New Price Schedule

Arsenic, chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, c.l. lb. No prices.
Sulphide, yellow, bbls. lb. No stocks.
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l. lb. .06 - —
l.c.l. lb. .07 - .08
Asafetida, cs. lb. .65 - .70
powd., bbls., dms. lb. .72 - .77
Asbestine (see Talc, N. Y. fibrous).
Asbestos, fiber, 5D and 5K, bgs., c.l. (20 tons), Cana. mines, ton.65.00 - —
5R, bgs., c.l. (20 tons), same basis. ton.58.00 - —
6D, bgs., c.l. (30 tons), same basis. ton.43.00 - —
7D, bgs., c.l., same basis. ton.38.50 - —
7F, bgs., c.l., same basis. ton.26.50 - —
7K, bgs., c.l., same basis. ton.25.00 - —
7M, bgs., c.l., same basis. ton.22.50 - —
7R, bgs., c.l., same basis. ton.21.50 - —
Asphaltum, Barbados, Dunellen, N. J. lb. .10¼ - —
California, dms., c.l. ton.36.40 - —
l.c.l. ton.41.40 - —
Cuban, A, bulk, c.l. ton.60.00 - —
l.c.l ton.90.00 - —
B, bulk, c.l. ton.38.50 - —
l.c.l. ton.55.00 - —
Egyptian ton. No stocks.
Asphaltum, gilsonite, brilliant, black, selects, 340° F fusing point, bgs., mines... ton.30.00 -32.00
270-295° fusing point, bgs., mines. ton.30.50 - —
seconds, 300-390° F fusing point, not uniform, bgs., mines. ton.25.50 - —
jet, bgs., ton lots, gross weight, Colo. mines. ton.30.50 - —
Manjak, No. 10, crude, dms., works. lb. .05½- .12
process, form, bgs., works. lb. .05¾- .12
jet, bgs., 2,000 lbs., gross weight, Colo. mines. ton.30.50 - —

Asphalthum, Mexican, refd., dms., f.o.b. Tampico, Mex. metric ton.27.50 - —
South American, refd., dms., c.l., N. J. Refy. ton.22.00 -23.00
l.c.l., same basis. ton.24.00 -25.00
tanks, same basis. ton.15.00 - —
Atropine, bots. oz.10.65 - —
sulphate, bots. oz. 8.75 - —

B

Balm of Gilead buds, bgs. lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry, root bark, bgs. lb. .78 - .80
Barbital, dms. lb. 3.50 - 3.60
sodium, dms. lb. 3.75 - 3.85
Barium carbonate, natural, 90% through 200 mesh, bgs., c.l., works. ton. — - —
precip., bgs., 10 tons and up, works. ton.67.50 -75.00
small lots, works. ton.74.50 -82.00
Chlorate, kgs., works. lb. .27½- .31
Chloride, CP, cryst., bbls. lb. .25 - .27
pure, bbls., kgs. lb. .10 - .12
tech., cryst., bgs., c.l., works, ton.80.00 - —
l.c.l., works. ton.90.00 - —
Dioxide, c.l., dms., works. lb. .11½- —
l.c.l., works. lb. .13 - —
Fluoride, bbls. lb. .14 - —
Hydrate, crystals, bgs. lb. .08 - .08½
Hydroxide, bbls., works. lb. .15 - .16
Iodide, bots. lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works. lb. .11½- —
l.c.l., works. lb. .13 - —
Oxide, dms., c.l., works. lb. .10 - —
l.c.l., works. lb. .10½- —
grd., dms., l.c.l., works. lb. .15 - .17
Peroxide (see Dioxide).
Silicofluoride, bbls. lb. .17 - .19
Stearate, ctns., 1 ton up. lb. .50 - —
smaller lots. lb. .51 - —

Barium sulphate, tech. (see Barytes, and Blanc fixe). X-ray, bbls. lb. .10 - 10½
kgs. lb. .12½- —
Sulphide, dms., works. ton.45.50 -64.00
Barytes, water-grd., paper bgs., c.l., St. Louis. ton.31.10 - —
l.c.l., same basis. ton.32.10 - —
ex whse., N. Y. ton.41.95 - —
Southern, off-color, bgs., mines. ton.19.00 - —
95.75%, bgs., mines. ton.20.00 - —
Ore, approx. 94% $BaSo_4$, bulk, mines. ton. 8.50 -12.50
Bay leaves (see Laurel leaves).
Barberry bark, bgs. lb. .12 - .13
Belladonna leaves, bls. lb. 2.10 Nom.
Root, bs. lb. 1.50 Nom.
Bauxite, bulk, mines. ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works. ton.40.00 - —
Benzaldehyde, NF, dms. lb. .68 - .80
tech., cbys., dms. lb. .45 - .55
Benzene (see Benzol).
Benzidin base, bbls. lb. .77 - —
Benzocaine, cns. lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms. ret., works, frt. alld. up to 2c, gal. .24 - —
tanks, E. of Omaha, same basis. gal. .19 - —
W. Coast, Minnequa, Colo., same basis. gal. .19 - —
Benzophenone, dms. lb. 1.10 - 1.28
Benzoyl chloride, cbys. lb. .25 - .28
Peroxide, pure, gran., fib. ctns., works. lb. .90 - 1.05
Benzyl acetate, f.f.c., cns. lb. .75 - —
dms. lb. .60 - .65
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms. lb. 1.00 - 1.15

Benzyl chloride, refined, cbys. lb. .22 - —
tech., cbys., works, frt. equald. lb. .20½- —
Cinnamate, cns. lb. 3.85 - 4.00
Formate, cns. lb. 1.95 - 3.50
Propionate, bots. lb. 1.80 - 2.00
Salicylate, bots. lb. 1.80 - 2.25
Benzylidinacetone, bots. lb. 2.00 - 2.70
Benzylisoeugenol, bots. lb. 9.50 - —
Berberine bisulphate, cns. lb. No stocks
Hydrochloride, bots. lb. No stocks
Sulphate, cns. lb. No stocks
Berberis root, bls. lb. .30 - .35
Betanaphthol, resublimed, dms., works. lb. .72 - —
tech., bbls., c.l., works. lb. .23 - .25
l.c.l., works lb. .26 - .28
Benzoate, fib. dms., works. lb. 1.75 - —
Salicylate, dms. lb. 5.00 - —
Betanaphthylamine, tech., works, lb. .59 - —
Betagammapicoline, dms., c.l., works. lb. .24½- —
l.c.l., works lb. .25 - —
Betapicoline, 90%, ret. dms., c.l., works. lb. 1.60 - —
l.c.l., works lb. 1.85 - —
95% dms., works. lb. 2.05 - —
98-99%, dms., works. lb. 2.20 - —
Beth root, bls. lb. .55 - .60
Bismuth chloride, jars. lb. 4.50 - —
Citrate, USP VIII, jars. lb. 3.12 - —
Hydroxide, dms. lb. 4.00 - —
Metal, ton lots. lb. 2.00 - —
Nitrate, cryst., cns. lb. 1.60 - —
Oxychloride, cns., dms. lb. 3.80 - —
Oxide, anhydrous, dms. lb. 4.20 - —
Subcarbonate, USP, dms. lb. 2.60 - 2.63
Subgallate, NF, fib. dms. lb. 2.45 - 2.48
Subiodide, fib. dms. lb. 4.13 - —
Subnitrate, USP, powd., dms. lb. 2.15 - 2.18
Subsalicylate, USP, dms. lb. 3.05 - —
Sulphocarbolate, fib. dms. lb. 4.05 - —
Bismuth-ammonia citrate, USP, powd., dms. lb. 3.70 - —
Black, acetylene, bgs., c.l., works, lb. .14 - —
l.c.l., works lb. .18 - —
Bone, 1A, bgs., bbls., c.l., frt. alld. dest. lb. .21 - —
1. bgs., bbls., c.l., same basis, lb. .19 - —
2. bgs., bbls., c.l., same basis, lb. .17½- —
3. bgs., bbls., c.l., same basis, lb. .16½- —
4. bgs., bbls., c.l., same basis, lb. .15½- —
5. bgs., bbls., c.l., same basis, lb. .13 - —
6. bgs., bbls., c.l., same basis, lb. .13 - —
7. bgs., bbls., c.l., same basis, lb. .16 - —
8, bgs., bbls., c.l., same basis. lb. .17 - —
457, bgs., bbls., c.l., same basis. lb. .13½- —
490A, bgs., bbls., c.l., same basis. lb. .10 - —
Bone black, l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.
Carbon, channel, compressed, beads, bulk, c.l., works, lb. .06 - —
bgs., c.l., works. lb. .0632- —
l.c.l., works lb. .07 - —
dlvd. or whse. lb. .102 - —
uncompressed, regular, bgs., c.l., works. lb. .074 - —
bgs., ctns., l.c.l., dlvd. or whse. lb. .11¾- —
furnace, HMF, bgs., c.l., works. lb. .05 - —
ctns., l.c.l., whse. lb. .09 - —
SRF, bgs., c.l., works. lb. .06½- —
ctns., l.c.l., whse. lb. .075 - —
Thermotonic, bgs., c.l., works, La. lb. .04 - —
l.c.l., whse. Trenton, N. J., lb. .06½- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure bgs., l.c.l., works. lb. .09¼- —
Lamp, 1, ctns., c.l., works. lb. .08½- —
l.c.l., works lb. .09 - —
2, ctns., c.l., works. lb. .10 - —
l.c.l., works lb. .11 - —
2A, ctns., c.l., works. lb. .12 - —
l.c.l., works. lb. .13½- —
3, ctns., c.l., works. lb. .14½- —
l.c.l., works lb. .15½- —
4, ctns., c.l., works. lb. .16½- —
l.c.l., works lb. .17½- —
5, ctns., c.l., works. lb. .20 - —
l.c.l., works lb. .20 - —
6, ctns., c.l., works. lb. .25½- —
l.c.l., works lb. .27½- —
7, ctns, c.l., works. lb. .37½- —
l.c.l., works lb. .38½- —
Mineral, vine type, bgs., l.c.l., works. lb. .03 - —
Vine A, bgs. lb. .03¾- .04
B, bgs. lb. .05¾- .06
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw, root bark, bls. lb. .75 - .76
Tree bark, bls. lb. .35 - .43
Black Indian hemp root, bls. lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works. ton.67.50 - —
l.c.l., works. ton.72.50 - —
direct process, bgs., c.l., works. ton.77.50 - —
l.c.l., works. ton.82.50 - —
N. Y. whse. ton.95.00 - —
bbls., c.l., works. ton.82.50 - —
l.c.l., works. ton.87.50 - —
N. Y. whse. ton.100.00 - —
soluble, bgs., l.c.l. lb. .17 - —
pulp, 66⅔, bbls., c.l., works, ton.55.00 - —
l.c.l., same basis. ton.60.00 - —
Bleaching powder, dms., c.l., works. 100 lbs. 2.75 - 3.00
l.c.l., works. 100 lbs. 3.25 - 3.75
bbls., c.l., works. 100 lbs. 3.25 - —
l.c.l., works. 100 lbs. 3.75 - —
Blood, dried, 16-16½% ammo., bgs. unit-ton. 7.25 - —
high-grade, unground, 16-17% ammon., bulk, Chicago, unit-ton. 7.00 - —
soluble, bgs., l.c.l. lb. .17 - —
Bloodroot, bls. lb. .65 - .70
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis, lb. 1.90 - —
toner, bbls., litho flushed, same basis. lb. 1.10 - —
Celestial, bbls., same basis. lb. .15 - .18
Chinese, bbls., same basis. lb. .42 - —
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper, phthalocyanin, full strength, bbls., same basis, lb. 3.75 - —
80%, bbls., same basis. lb. 3.00 - —

"N-Z-Amine"★—enzymatic digest of casein
Bulk Casein Peptone
"N-Z-Case"★—laboratory casein peptone
Whole Protein—from milk
"Hy-Case"★—acid digest of casein
Edible and Industrial casein

"De-Vitaminized" Casein★
Lactose USP
Lactose Impalpable
Calcium Lactate USP
Sodium Lactate
Ferric Lactate

More efficient aminos for protein therapy

The value of milk amino acid products in treatment of a variety of illnesses involving protein deficiencies, such as malnutrition in children, indicates broad demand for pharmaceutical products supplying milk amines.

The efficacy of milk aminos in protein therapy is now well recognized. In the new milk-source amino acid product "Edamin,"* Sheffield offers superior quality, uniformity and flavor. This combination can make your amino-containing preparations more popular with both physician and patient—as proved by the favorable response to "Edamin" in the many cases where "Edamin" has been used in amino acid therapy.

"Edamin" is a tryptic digest of lactalbumin, containing all the aminos recognized as essential in normal nutrition, with combined content of methionine and cystine relatively high. Animal tests show that the biological value of "Edamin" is equal to that of lactalbumin, itself a superior animal source protein. In form, "Edamin" is a fine, creamy-white powder. It can be flavored or compounded with carbohydrates, minerals, vitamins or other desired nutrients.

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For free samples, information and prices, write to Chemurgic Division, Sheffield Farms Company, Inc., 524 West 57th Street, New York 19, N. Y. Phone COlumbus 5-8400.

★Trade-mark of Sheffield Farms

Sheffield's Chemurgic Division is constantly at work producing and perfecting a complete line of high-quality milk chemicals sold only in bulk.

SHEFFIELD FARMS COMPANY, INC.

Century-old name in milk—Latest word in milk chemicals

SHEFFIELD FARMS COMPANY, INC.

CHEMURGIC DIVISION

Division of National Dairy Products Corporation

Blue, iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Milori, bbls., same basis....lb. .42 - —
Peacock, fugitive, 100% color strength, same basis..lb. .52 - —
permanent toner, green shade, molybdic, bbls., same basis. lb. 3.50 - —
tungstic .....lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .48 - —
Prussian, bbls., same basis..lb. .42 - —
soluble, bbls., same basis.lb. .42 - —
Soda, CP, bronze, bbls., same basis..lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .24 - .28
jobbing type, dry, bbls., same basis..lb. .13 - .14
regular types, dry or pulp, bbls., same basis..lb. .18 - .19
Victoria, toner, molybdic, bbls. lb. 3.75 - —
tungstic, bbls. .....lb. 3.30 - 3.55
Ink toner, bbls., same basis. lb. 1.83 - —
synthetic vehicle, bbls., same basis..lb. 2.05 - —
Violet toner, molybdic, bbls., same basis..lb. 1.24 - —
tungstic, kgs., same basis..lb. 2.50 - —

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.); Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher, Pac. Coast; Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Blue dyes are listed under Dyes.

Blue mass, NF, cns., tube....lb. 1.47 - 1.49
powd., bots., cns., dms.....lb. 1.50 - 1.52
Blueflag, root, bls.....lb. No stocks.
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls.....lb. .11 - .12
Bone, raw bulk, Chicago....ton.75.00 - —
junk, bulk, same basis..ton.50.00 -52.00
Meal, raw 4½% ammon., 50% phos., bgs., E. works.. ton.65.00 - —
Chicago, works..ton.60.00 - —
steamed, feeding grade, 1% ammon., 60% phos. bgs., E. works..ton.65.00 - —
Chicago, works....ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton.60.00 - —
Chicago, works....ton.60.00 - —

Phosphate, defluorinated (see D.).
Precipitated (see Calcium phosphate tribasic precip.).

Boneset leaves, bls.....lb. .17 - .18
Borage flowers, bls.....lb. .60 - .62
Borax, tech., 99¼% fine gran., bulk, works..ton.44.50 -47.50
paper bgs., c.l., works, frt. alld..ton.48.50 -51.00
ton lots, ex whse. N. Y. or Chi..ton.66.00 - —
less ton lots, same basis. ton.71.00 - —
bbls., c.l., frt. alld..ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.86.00 - —
less ton lots, same basis. ton.91.00 - —
coarse gran., cryst., paper bgs., c.l., works, frt. alld..ton.53.50 -56.00
ton lots, ex whse. N. Y. or Chi..ton.71.00 - —
less carlots, same basis. ton.76.00 - —
bbls., c.l., works, frt. alld..ton.73.50 - —
ton lots, ex whse. N. Y. or Chi..ton.91.00 - —
less carlots, same basis. ton.96.00 - —

USP, $15 per ton higher.

Bordeaux mixt., bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis.....lb. .16 - .23

Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).

Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis..lb. .28 - —
Brasilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - 1.70
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., 100-lb. cans, dms., works..lb. .50 - .60
gold, moulding, 100-lb. cans, dms., same basis..lb. .80 - 1.00
printing ink, 100-lb. cns., dms., same basis..lb. .95 - 1.10
radiator, 100-lb. cns., dms., same basis..lb. .60 - .65

Broomtop, bls. .....lb. .29 - .30
Brown, iron-oxide, pure, precip., cks., works..lb. .10¼- .12
Metallic, bgs., c.l., works.lb. .02½- .02¾
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, bbls., works..lb. .06¾- .10¾
pap. bgs., l.c.l., same basis..lb. .04 - .04½
Italian type, bbls., works. lb. .06¾- .09¾
raw, American, bgs., l.c.l., works..lb. .06½- .11¾
Italian type, bbls., works. lb. .11½- .13½
Umber, burnt, American, bbls., works..lb. .06¾- —
Italian-type, bbls., works.lb. .05 - —
Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa.; N. Y..lb. .05½- .05¾
St. Louis, Chicago, Indianapolis, New Orleans..lb. .06½- —
Minneapolis .....lb. .0660- —
Pittsburgh .....lb. .06¼- —
Los Angeles.....lb. .07½- —
Portland, San Francisco, Seattle..lb. .06¾- —
ex whse., Los Angeles. lb. .07¼- —
Portland, San Francisco, Seattle..lb. .07 - —
Vandyke, reg., bbls., works.lb. .10 - .11
special, bbls., works.....lb. .12 - —
Brucine, cns., 100 ozs.....oz. .40 - .50
Sulphate, cns., 100 ozs.....oz. .40 - .45
Bryonia root, bls.....lb. .45 - .50
Buchu leaves, bls.....lb. 1.10 - 1.15
Buckthorn bark, bls.....lb. .34 - .35
cut and sifted, bbls.....lb. .45 - .46
Berries, bgs.....lb. 1.00 - 1.10
Burdock root, bls.....lb. .56 - .57
Burgundy pitch, dom., dms., incl., works., South..100 lbs.10.46 -11.10
Butane, indust., tanks, Group 3. gal. .03¼- —

Butyl acetate, normal, ferment, Ill., Ind., prod., dms., c.l., frt. alld. E. of Miss. R.lb. .30½- —
l.c.l., same basis..lb. .31½- —
tanks, same basis..lb. .29 - —
tankwagon, same basis. lb. .29½- —
other production, dms., c.l., same basis..lb. .30½- —
l.c.l., same basis...lb. .31½- —
tanks, same basis....lb. .29 - —
synthetic, dms., c.l., same basis..lb. .15½- —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .14½- —
secondary, dms., c.l., dlvd. E. of Miss. R..lb. .1260- —
l.c.l., same basis.....lb. .1310- —
tanks, same basis.....lb. .1160- —

Normal butyl acetate, W. of Miss. R., ½c. per lb. higher.

Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies..lb. .41½- —
l.c.l., same basis.....lb. .42½- —
tanks, same basis.....lb. .40 - —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. No prices.
Butyl oleate, ref., dms., l.c.l., works..lb. .35 - —
tech., dms., c.l., works....lb. .24 - —
l.c.l., works.....lb. .24½- .25½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. No stocks
tanks, dlvd.....lb. No stocks
Stearate, dms., l.c.l., frt. alld. E. of Rockies..lb. .47½- —
Butyric ether, bots.....lb. 6.50 - 6.90
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —

C

Cadmium bromide, jars.....lb. 1.66 - 1.91
Iodide, cns.....lb. 4.49 - 4.64
Lithopone (see Yellow).
Metal, ingots or sticks, dlvd.. lb. 1.75 - 1.80
pat. shapes, cs., dlvd.....lb. 1.75 - 1.80
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, dms., 100 lbs. or more. lb. 3.75 - 7.00
anhydrous, dms., 100 lbs. or more..lb. 4.00 - —
Citrated, dms., 100 lbs. or more. lb. 2.50 - —
Hydrobromide, bots.....lb. 5.91 -5.92
Calabar beans, bgs., futures..lb. .65 - .66
Calamus root, natural, dom., bls. lb. .40 - .45
imported, bleached, bls..lb. .70 - .80
100 lbs 3.00 - 4.00
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works..gram. 4.00 - —
1,000 to 10,000 s.u., works. gram. 4.40 - —
less than 1,000 s.u., works. gram. 4.80 - —
Inedible oil, dms., 10,000 or more, s.u., works...unit. .10 - —
1,000 to 10,000 s.u., works. unit. .11 - —
less than 1,000 s.u., works. unit. .12 - —
Calcium acetate, bgs., dlvd.... Arsenate, dealers, dms., c.l., whse., wks., frt. alld.lb. .09½- —
l.c.l., 96 lbs. or more....lb. .10½- .11¼
Bromide, N.F., jars.....lb. .70 - —
Carbide, dms., c.l., works, ton.50.00 - —
dlvd. .....ton.87.00 -90.00

Calcium carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars..lb. .28 - .30
flake, 77-80%, paper bgs., c.l., dlvd..ton.21.50 -38.00
l.c.l., dlvd.....ton.31.50 -48.00
liquor, basis 40%, tanks, wks. ton. 8.50 - —
solid, 73-75%, dms., c.l., dlvd. ton.21.00 -37.50
l.c.l., dlvd.....ton.31.00 -34.15

Calcium chloride prices vary according to zone; minimum prices are for spot delivery. C.l. prices for flake in burlap bgs., $2.50 per ton higher; dms., $3.50 per ton higher.

Cyanide, dms., delivered E. of Rockies..lb. .25 - .40
Gluconate, USP, bbls.....lb. .58 - .65
cns. .....lb. .76 - .83
Calcium, gluconate, AA grade, 7c. per lb. higher.
Hydride, dms., works.....lb. .90 - —
Glycerophosphate, N.F., fib. dms..lb. 1.90 - —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies..dm.24.00 -28.50
cans, 45-lb. cases, same basis. cs.19.75 -21.50
Iodide, jars.....lb. 4.12 - —
Lactate, USP, powd., dms..lb. .40 - .50
Laurate, bbls. .....lb. .28 - .30
Mandelate, USP, dense, fluffy, works, dms..lb. 2.05 - 2.30
Naphthenate, 5% Ca, 50-gal. dms..lb. .27 - —
Pantothenate, dex., jars...kilo.75.00 - —
Phosphate, feeding grade, bgs., works..ton.75.00 - —
food grade, bbls., 10 or over, works..lb. .07 - .07¾
less than 10, works.....lb. .06 - .10

Spot Deliveries

CASTOR OIL
BLEACHING POWDER
35—37% AND 70%
CAUSTIC SODA
FLAKE AND SOLID
GLYCERINE C.P.
ACETYL SALICYLIC ACID
GLUCOSE 45° Be.
TRICHLORETHYLENE

OTHER SPECIAL PRODUCTS
Distributors for THE RUFERT CHEMICAL COMPANY
NICKEL FORMATE • Also NICKEL CATALYST • NICKEL CARBONATE
NICKEL OXIDE, etc.

GOLWYNNE
CHEMICALS CORPORATION
420 LEXINGTON AVENUE • NEW YORK 17, N. Y. • PHONE LE 2-9740

Calcium phosphate, medicinal, dibasic, bgs..100 lbs. 11.40 -18.00
monobasic, cryst., bgs., c.l., works, frt., equald..lb. .05¾- —
l.c.l., frt. equald.....lb. .06 - .06½
tribasic, bbls., c.l., works..lb. .0635- —
bgs., l.c.l., works.....lb. .0645- .0680
Phytate, bgs., works.....lb. .16 - .17
Resinate, precip., 5.8% Ca, 100-lb. dms..lb. .20 - —
Silicate, hydrated, c.l., bgs., works..lb. .05½- —
l.c.l., works.....lb. .06 - —
Stearate, precip., ctns., 2,000 lbs. to c.l., works..lb. .52 - —
l.c.l., works.....lbs. .53 - —
Sulphate (see Gypsum).
Sulphide, 76%, bgs., c.l., works, ton. 45.00 - —
80%, bgs., c.l., works....ton. 50.00 - —
luminous, tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms..lb. .49 - .54
Calcium-strontium sulphide, phosphorescent, dms., works..lb. 1.06 - 1.50
fine particle size, works, lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 1.05 - 1.10
Calomel, USP, dms.....lb. 2.10 - 2.11
fine powd., dms.....lb. 2.25 - 2.26
Camphor, monobromated, dms.lb 3.20 - —
Camphor, natural.....lb. No stocks
synth., tech., bbls., contract, 2,000 lbs. or more, works..lb. .50 - —
10 bbls. (1,500 lbs)....lb. .52½- —
5 to 9 bbls.....lb. .53 - —
1 to 4 bbls.....lb. .54 - —
smaller lots.....lb. .56 - .63
USP, gran., powd., bbls., 2,000-lb. lots..lb. .77 - —
1,000-lb. lots.....lb. .78 - —
smaller lots.....lb. .79 - —
tablets, 2,000-lb. lots....lb. .90 - —
1,000-lb. lots.....lb. .91 - —
Canada balsam (see Fir balsam).
Cantharides, Russian, bgs....lb. 7.00 - 7.25
powdered, bxs.....lb. 7.25 - 7.50
Chinese, cs. .....lb. 4.00 - 4.25
powd., bxs. .....lb. 4.25 - 4.50
Capsicum (see Pepper, red).
Capsicum oleoresin, USP VII, cns..lb. 4.50 - 4.65
Caramel coloring, bbls.....gal. 1.25 - —
Caraway seed, California, Dutch type..lb. .25½- .26
Danish, bags.....lb. .25¼- .26
Dutch, bags.....lb. .25¾- .26¼
futures, bgs.....lb. .26 - .26½
Carbazole, 97%, dms., ton lots, works..lb. 1.10 - —
smaller lots, works.....lb. 1.20 - —
Carbinol, butyl, norm. dms., l.c.l., works..lb. .42 - —
secondary, dms., l.c.l., works, lb. .70 - —
Isobutyl, dms., c.l., works..lb. .51 - —
l.c.l., works.....lb. .52 - —
tanks, works.....lb. .50 - —
Methylisobutyl, dms., c.l., nearest delivery point, buyer's works..lb. .14½- —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Carbon bisulphide, 50-gal. dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis, lb. .07 - .07¼
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls. .....lb. .06 - .08
Tetrachloride, c.p., dms., c.l., lb. .09 - —
l.c.l. .....lb. .09½- —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld..lb. .06½- —
l.c.l., frt. alld.....lb. .07 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
Carbon tetrachloride, tech., Zone 3, 52½-gal. dms., c.l., frt. alld..lb. .07½- —
l.c.l., frt. alld.....lb. .08 - —
Zone 4, 52½-gal. dms., c.l., lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
USP, cbys. .....lb. .17 - .19

Carbon tetrachloride prices are frt. alld. with the exception of Zone 4, where prices are f.o.b. cars L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

Cardamom, bleached, bold, cs. lb. 1.50 - 1.55
medium, cs. .....lb. 1.40 - 1.45
decorticated, Guatemala, cs..lb. 1.25 - 1.30
India, cs. .....lb. 1.23 - 1.25
green, Alleppey, bgs.....lb. 1.10 - 1.15
Carotene, cryst., 1,350,000 A units per gm., tins, works, 1,000,000 units. .50 - —
research grade (alpha, 10%, beta, 90%), amps., 100 grams, dlvd., gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works, lb. 37.80 - —
50,000 USP units per gm., bots., works..lb. 8.43 - —
dms., works.....lb. 7.68 - —
3,000 A units per gm., tins, works, 1,000,000 units. .55 - —
dms., works, 1,000,000 units. .60 - —
3,300 USP units per gm., dms., works..lb. .66 - .71
Carvol, bots.....lb. 14.25 -16.00
Cascara sagrada bark, bulk..lb. .40 - .43
Case - hardening mixture, 30% gran., dms., l.c.l..lb. .09¾- —
slabs., dms., l.c.l.....lb. .08¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point..lb. .26 - —
rennet-precip., 10,000 lbs. or more, same basis..lb. .30 - —
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .28 - —
rennet - precip., unground, 100 bgs., or more..lb. No prices
smaller lots .....lb. .32 - —
Cassia, Batavia, No. 1, Thinquill, bls..lb. .60 Nom.
Pedang, No. 1, bls.....lb. .30 - .31
shortstick, bls.....lb. .50 Nom.
broken, bls.....lb. .24 - .25
China buds, bgs.....lb. .26 - .27
rolls, selected, cs.....lb. .09½- .10
extra select, broken, bls..lb. .08 - .08½
Kwangsi, broken, bls.....lb. .15½- .16
Saigon, all medium.....lb. .26 - .27
4-10-4, bls. .....lb. .26 - .27
broken, bls. .....lb. .23½- .24
Yunnan, bls.....lb. .22 - .23
Cassia fistula, bskts.....lb. .26 - .28
Castor beans, new crop, June-July, bgs., Brazilian ports, long ton. 203.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works..ton. 37.50 - —
Castoreum, nat., cns.....lb. 39.00 - —
synthetic, cns. .....lb. No prices
Catechol, CP, cryst., works, fib. dms..lb. 2.00 - —
resublimed, works, dms....lb. 3.25 - —
Catnep, bls.....lb. .65 - .70
Celery seed, French, bgs.....lb. .20 - .21
Indian, bgs.....lb. .19 - .19½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis..lb. .42 - —
Acetate-butyrate, flake, high (36.5%) butyrl content, 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .51 - —
1,000-4,900 lbs., frt. alld, lb. .52 - —
50-lb. ctns., 100-900 lbs., frt. alld..lb. .53 - —
smaller pkgs., works..lb. .54 - —
medium (15.5 or 17.0%), 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .49 - —
1,000-4,900 lbs., frt. alld. lb. .50 - —
100-900 lbs., frt. alld..lb. .51 - —
smaller pkgs., works..lb. .52 - —
Granules are 6c. per lb. higher, all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —
Cerium hydrate, dms., works..lb. 1.00 - —
Oxalate, NF, bbls., kgs., works, lb. .70 - .72
Oxide, optical grade, bgs., under 100 lbs., works..lb. 2.25 - —
kgs., 100-lb. lots, works..lb. 1.75 - —
Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02¾- —
paint and other industries, bgs., c.l., works..ton. 40.00 - —
papermakers, bgs., c.l., works, ton. 32.50 -40.00
rubbermakers, bgs., c.l., works, ton. 30.00 - —
Chamomile, Hungarian, ca., futures..lb. .65 - .70
Roman, bls., futures.....lb. 1.45 - 1.50
Charcoal, hardwood, lump, bulk, c.l., works..ton. 39.50 -43.50
bur. bgs., extra, returnable, c.l., works..ton. 42.50 -45.50
briquets, bulk, c.l., works..ton. 49.50 - —
bgs., c.l., works.....ton. 54.50 -55.50
granular, bgs., incl., c.l., wks. ton. 50.50 - —
screenings, bgs., works...ton. 33.50 - —
Pinewood, lump, bgs., c.l., works, South..ton. 35.00 - —
granular, powd., bgs., c.l., works, South..ton. 40.00 - —
l.c.l., works.....ton. 50.00 -60.00
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, 25% tannin, bbls., c.l., works.....lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
powdered, 65% tannin, bags, extra, c.l., works.....lb. .1040- —
l.c.l., works.....lb. .1115- —
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton. 12.00 - —
l.c.l., works....ton. 16.00 - —
bulk, c.l., works.ton. 9.00 - —
200 mesh, bgs., c.l., works..ton. 12.00 - —
l.c.l., works.....ton. 9.50 -15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works.ton. 12.50 - —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton. 51.25 - —
powd., cks., l.c.l., ex whse. ton. 71.75 - —
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Chlorinated rubber, standard, ctns., 100 lbs. up, works..lb. .40 - —
smaller lots, works.....lb. .43 - —
1-lb. bots, ex whse.....lb. 1.25 - —
Chlorine, liquid, cyls., c.l., del. lb. .06¾- —
contracts, del. .....lb. .06¾- —
l.c.l., del. .....lb. .09 - .10½
tanks, single units, works, frt. equald..100 lbs. 2.00 - —
multiple units, 3 cars or more, works, frt. equald. 100 lbs. 2.30 - —
2 cars, works, frt. equald. 100 lbs. 2.90 - —
1 car, works, frt. equald. 100 lbs. 3.50 - —
Chloroform, tech., dms.....lb. .20 - .24
USP, dms.....lb. .30 - .33
Chloropicrin, com'l, 180-lb. cyls. lb. .80 - —
100-lb. cyls., same basis..lb. .82 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Choline chloride, fib. dms., works. lb. 3.00 - 3.10
feed grade, fib. dms., works. lb. 2.00 - —
Dihydrogen citrate, fib. dms., works..lb. 3.00 - 3.10
Chreme acetate, powd., 72% Cr., bbls., works..lb. No stocks.
solut., 7½%, bbls., cs.....lb. .09¼- —
8½%, bbls., cs.....lb. .09¾- —
Fluoride, bbls., works.....lb. .24 - .27
Cake, bulk, c.l., works....ton. 16.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots.....lb. 6.02 - 8.00
Cinchona bark, red, quill, USP, 10-in., can..lb. 1.26 Nom.
Cinchonidine, small, cryst., cns., 100 ozs..oz. 1.02¼- —

HERCULES DOMESTIC CASEIN *ACID OR RENNET*

HERCULES—one of the largest casein producers in America—now offers high quality domestic casein for prompt delivery.

Hercules casein is produced in two types—acid and rennet—made under rigid chemical processing controls. Tailor-made grades—to meet individual customer specifications—may be made.

For prices and delivery data, get in touch with our nearest sales office.

DAIRY PRODUCTS DIVISION

HERCULES POWDER COMPANY

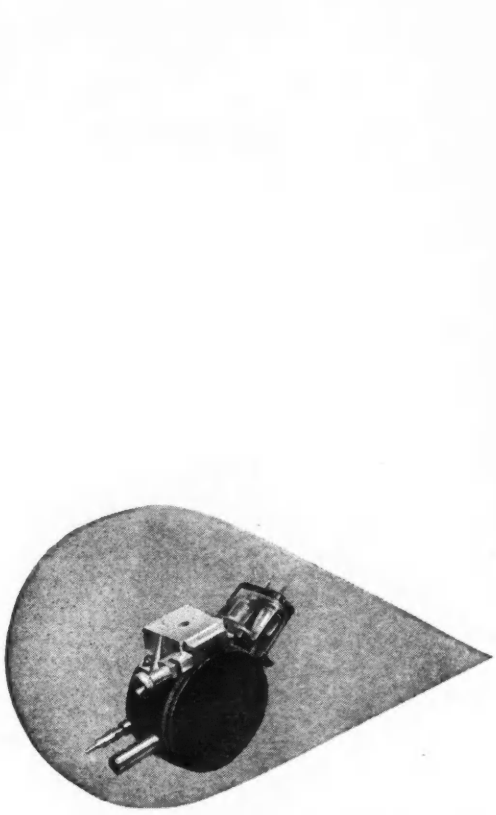
INCORPORATED

WILMINGTON, DEL. • CHICAGO, ILL.

SAN FRANCISCO, CAL. • KALAMAZOO, MICH. • HOLYOKE, MASS. • MILWAUKEE, WIS.

DP7-1

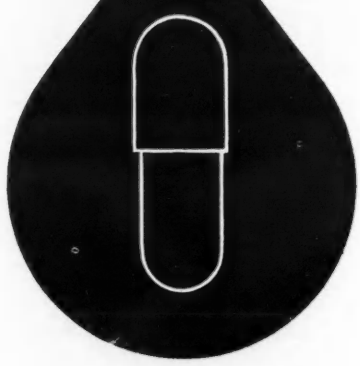
dynamic **medicinals** *for a dynamic age*



radar's *prime mover*

Perfected during the war, the Magnetron no longer even looks like a radio tube. From a dynamic mass of metal and glass smaller than a man's closed fist surges power far greater than that of any broadcasting station. The Magnetron is the prime mover of radar and the entire electronics industry.

yet there is nothing new about its principles **except their application**



vitamins

Owners of private formulae for vitamins approve Strong Cobb's dynamic manufacturing which produces medicaments of elegance to obviate customer resistance. Unpleasant taste and odor are removed. The resulting vitamin passes the critique of the most discriminating.

Liquids, tablets, capsules and creams have tomorrow's precision control engineered into them by Strong Cobb's dynamic manufacture.

Whether you are considering immediate or future production our technical sales director will be pleased to talk over your manufacturing problems with you.

Strong Cobb & Company, Inc.

Strong Cobb Division of Standard Brands Incorporated
Cleveland 4, Ohio

Cinchonine, small, cryst., cns., 100 ozs..oz. .75½- —
large, cryst., cns., 100 ozs..oz. .79½- —
sulphate, NF, cns., 100 ozs..oz. .55½- —
Cinchopen, NF, heavy, dms., works..lb. 4.20 - 4.30
standard, dms., works....lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms..lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls., futures..lb. .50 - .51
Citral, bots., cns.....lb. 5.15 - 7.70
Citronellal, bots., dms.....lb. No prices.
Citronellol, bots., dms.....lb. 8.85 - 9.50
Clove, Madagascar, bls.....lb. .13 - .13½
futures, bls.....lb. .12½- .13
Zanzibar, bls.....lb. .16 - .16½
Clover tops, red, dom., bgs....lb. .70 - .75
imported, bgs.....lb. No stocks.
Coaltar, coal-gas, crude, 50 gal., dms., c.l., works..dm. 9.50 - —
l.c.l., works .....dm.10.00 - —
tanks, works .....gal. .09 - —
refd., 50-gal. bbls., c.l., works. bbl.10.00 - —
l.c.l., works .....bbl.10.50 - —
tanks, works .....gal. .10 - —
water-gas, crude, 55-gal. dms., c.l., works..dm. 9.50 - —
l.c.l., works .....dm.10.00 - —
tanks, works .....gal. .09 - —
refd., 55-gal. dms., c.l., works. dm.10.00 - —
l.c.l., works.....dms.10.50 - —
Cobalt acetate, bbls., kgs., dlvd. lb. .83⅝- —
Carbonate, powd., bgs., works. lb. 1.68 - —
feed grade, 49¼% Co, kgs.lb. 1.68 - —
Chloride, kgs., works.....lb. .67½- —
feed grade, 24.5% Co, kgs.lb. 1.25 - —
Hydrate, bbls.....lb. 2.04 - —
feed grade, 62% Co, kgs...lb. 2.04 - —
Linoleate, paste, 6%, dms...lb. .60 - —
solid, 8½%, dms.....lb. .68½- —
Cobalt naphthenate, 6% Co, solid, dms..lb. .35½- —
Nitrate, feed grade, 20.4% Co, bbls..lb. .75⅝- —
Oleate, bbls.....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.16 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.26½- —
Resinate, precip., 7.5% Co, 100-lb. dms..lb. .38½- —
Soyate, 3%-3.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate, dms.....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —

Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.

Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, 100-oz. lots, cns..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .65 - .66
silver, Teneriffe, bgs.....lb. .66 - .69
Cocoa butter, bulk.....lb. .57 - .58
Cocillana bark, bgs.....lb. .53 - .54
Codeine, cns., 100ozs.....oz.11.70 - —
Hydrochloride, cns., 100 ozs.oz.10.50 - —
Phosphate, cns., 100 ozs....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls.....lb. .24 - .25
blue, bls.....lb. .24 - .25
Colchinine, bots., cns.....oz. No stocks.
Colchicum seed .....lb. No stocks.
Collodion, USP, dms. .....lb. .24 - .29
Flexible, USP, dms. .....lb. .25½- .30½
Colocynth pulp, bls. .....lb. .52 - .53
Colombo root, bls. .....lb. .17 - .18
Coltsfoot leaves, bgs.....lb. .50 - .55
Condurango bark, bgs., futures, lb. .25 - .26
Copaiba balsam, Para, cns....lb. No stocks.
S. A., USP, cns.....lb. .95 - 1.00

Copper acetate, cupric, bbls., works..lb. .26 - —
smaller containers, wks..lb. .29 - .30
Carbonate, 52-54%, bbls....lb. .26 - .26½
Chloride, anhyd., bbls.....lb. .26½- —
crystals, bbls. .....lb. .17⅝- —
Cyanide, tech., bbls.....lb. .40½- —
Hydrate, dms., del. E. Miss.lb. .26½- .26⅝
Metal, electrolytic .....flb. .21½- .24
Naphthenate, liquid, 8% Cu, dms., dlvd..lb. .21 - —
solid, 11% Cu, dms., dlvd.lb. .27½- —
Nitrate, tech., cryst., bbls., works..lb. .19½- .20½
Oleate, precip., bbls.....lb. .32½- —
Oxide, black, bbls., works..lb. .29 - .30
red, com'l, bbls., works....lb. .30 - .33
Oxychloride-sulphate, bgs....lb. .24 - —
Resinate, precip., 8.5% Cu, 125-lb. dms..lb. .21½- —
Stearate, bgs., works.....lb. .35½- —
Sulphate cryst., 99%, bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., 100 to 36,000 lbs., 100 lbs. 7.85 - 8.60
Monohydrated, 35%, dms., c.l. dlvd..100 lbs.12.55 -12.80
l.c.l., dlvd. .....100 lbs.13.55 - —
tribasic, dealers, bgs., works. c.l..lb. .21½- .22½
l.c.l., same basis.....lb. .23 - .23½
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.53 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra, c.i.f., Pacific ports....ton.176.00 - —
c.i.f., Atlantic or Gulf ports.ton.182.00 - —
Coriander seed, Argentine, bgs., lb. .05½- .06
Indian, bgs.....lb. No stocks
Italian, bgs.....lb. .06¼- .06⅝
Morocco, bgs.....lb. No stocks
Peruvian, bgs.....lb. .07 - .07½
Corn silk, bls.....lb. .38 - .40

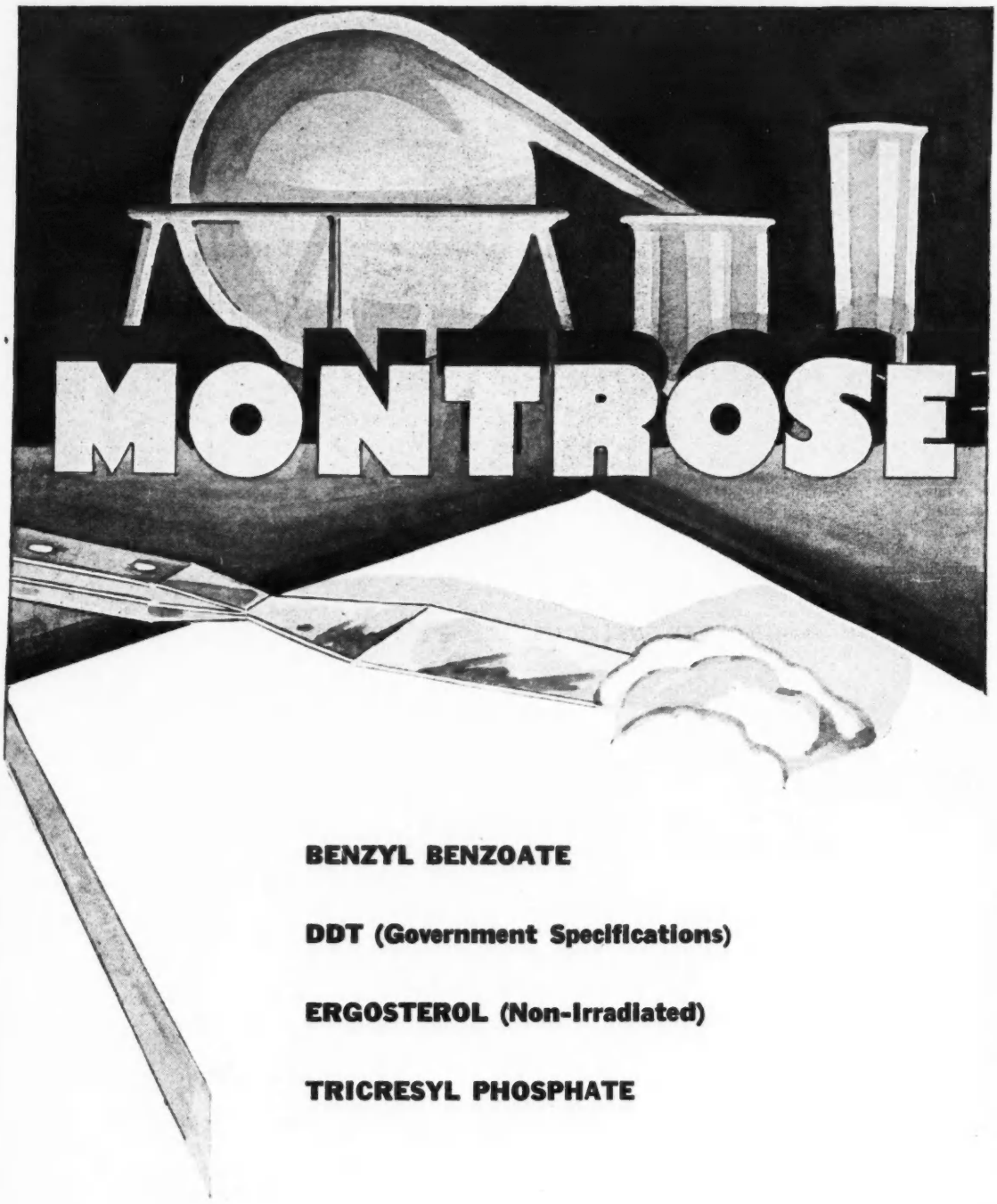
Corn sugar, tanners, chipped, bgs., c.l., 60,000 lbs. min. 100 lbs. 5.20 - —
bbls., c.l., same basis.... 100 lbs. 5.33 - —
Syrup, 42°, bbls., c.l....100 lbs. 5.65 - —
l.c.l. .....100 lbs. 5.80 - —
Corrosive sublimate, USP, cryst., dms., 50 lbs. or more..lb. 1.93 - —
gran., powd., dms., 50 lbs. or more..lb. 1.78 - —
Cottonroot bark, bls.....lb. .40 - .45
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. No prices
Meal, 41% protein sacked, mills, southeast, c.l..ton.63.00 -64.00
Coumarin, cns., 25 lbs. or more. lb. 2.75 - 3.25
smaller lots.....lb. 2.90 - 3.30
Cramp bark, NF, bls.....lb. .75 - .80
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs., one ship't..lb. .41½- —
smaller lots, bbls., kgs. lb. .42 - .42½
Creosote carbonate, bots., cbys. lb. 2.30 - 2.40
Coaltar (see Cresol).
Oil, coaltar, crude, tanks, works. gal. .17½- —
refined, dms., c.l., works. gal. .30 - .34½
l.c.l., same basis....gal. .33 - .35
tanks, same basis....gal. .21 - .23
solution, 50-50, tanks, works. gal. .16 - —
Wood beech, bots., cbys..lb. 1.05 - 1.10
Hardwood, NF, bots., cbys.lb. .80 - .85
Pine, dms.....gal. .31 - .32
Cresol, special resin grades, dms., c.l., works, frt. equald. lb. .12¼- .13½
l.c.l. same basis.....lb. .13 - .13⅝
tanks, same basis.....lb. .11⅜- .12½
USP, dms., c.l., same basis..lb. .13⅝- —
l.c.l., same basis.....lb. .14¼- —
tanks, same basis.....lb. .12 - —
Crotonaldenyde, 91-93%, 55 and 110 gal. dms., l.c.l., works. lb. .17 - —
5 and 10-gal. dms., l.c.l., works..lb. .20½- —
Cryolite, nat., dealers, bgs., bbls., c.l., works..100 lbs. .12⅜- —
bbls., l.c.l., works....100 lbs. .14 - —
synth., bgs. bbls., c.l., frt. alld. E. of Miss. R..lb. — - —
l.c.l., works.....lb. — - —
Cube root, 5% rotenone, bbls., works..lb. .60 - .65
4% rotenone, bbls., works..lb. .48 - .52
Cubeb berries, XX, bgs.....lb. .75 - .80
powd., cs. .....lb. 1.00 - 1.05
Culvers root, bls.....lb. .70 - .75
Cumin seed, Cyprus, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .40 - .41
Morocco, bgs.....lb. No stocks
Persian, bgs. .....lb. .27 - .28
Syrian, bgs. .....lb. .27 - .28
Cutch, 65% tannin, bgs., ex dock. lb. .12 - —
Cyanamide, fertilizer mixing grades, guaranteed 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk. unit-ton. 1.85 - —
21% N., pulv., bgs., same basis..unit-ton. 1.75 - —
Cyclohexane, tech., dms., c.l., works..lb. .09½- —
l.c.l., works.....lb. .10 - —
tanks, works.....lb. .08 - —
Cyclohexanol, dms., c.l., works. lb. .21½- .30
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Cyclohexanone, tech., dms.....lb. .26½- .30
l.c.l., works .....lb. .27 - .31
tanks, works .....lb. .25 - .29
Cyclopropane, USP, cyls., dlvd.. gal. .27 - —

D

Damiana leaves, bls.....lb. .35 - .40
Dandelion root, bls.....lb. .75 - .80
DDT, fiber, dms., c.l., works.lb. .42½- —
ton lots, works.....lb. .45 - —
tins, smaller lots, works....lb. .48 - .50
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deertongue, bls.....lb. .35 - .40
Defluorinated phosphate, 65% b.p.l., paper bag., Columbus, Ga..ton.39.25 - —
Texarkana, Ark.....ton.41.00 - —
Tupelo, Wis.....ton.39.25 - —
Wales, Tenn.....ton.39.25 - —
phosphate rock, paper bgs., works..ton.34.25 - —
Degras, common, bbls.....lb. .10 - .12
neutral, less 2% ffa., bbls..lb. .22 - .24
over 2% ffa., bbls.....lb. .21 - .23
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l. 100 lbs. 6.50 - —
l.c.l. .....100 lbs. 6.65 - —
Chicago, bgs., c.l....100 lbs. 6.05 - —
Corn, canary, bgs., c.l...100 lbs. 6.24 - —
l.c.l. .....100 lbs. 6.39 - —
Chicago, bgs., c.l...100 lbs. 5.79 - —
dark, bgs., c.l.....100 lbs. 6.34 - —
l.c.l. .....100 lbs. 6.49 - —
Chicago, bgs., c.l...100 lbs. 5.89 - —
white, bgs., c.l.....100 lbs. 6.09 - —
l.c.l. .....100 lbs. 6.24 - —
Chicago, bgs., c.l...100 lbs. 5.64 - —

Above prices are for dextrin in paper bgs.; cotton bgs., 20c. higher.

Potato, dom., bgs.....lb. .14¼- .14½
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grades, bots..lb. 5.20 - 6.00
laboratory grade, bots..... 100 grams. 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Amyl ether).
Phthalate, dms., tanks.....lb. No prices
Diamylamine, dms., c.l., works. lb. 1.47 - —
l.c.l., works.....lb. 1.50 - —
Dianisidine, dms.....lb. 1.38 - —
Diatomaceous earth, dom., CP, bgs., c.l., Atlantic Coast.lb. .07 - —
l.c.l., ex whse.....lb. .10 - .16
nat., bgs., c.l., Pacific coast. ton.22.00 -25.00
l.c.l., ex whse.....ton.45.00 - —
purified, bgs., c.l., Atlantic coast..ton.55.00 -59.00
l.c.l., ex whse.....ton.85.00 -90.00
Algerian, bgs., c.l., Atlantic coast..ton. No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l. .....lb. .06 - —
Dibutyl phthalate, dms., c.l., same basis..lb. .30½- .33½
l.c.l., same basis.....lb. .31 - .34½
tanks, same basis.....lb. .29 - .32
Sebacate, dms., c.l., works..lb. No prices
l.c.l., works.....lb. No prices
tanks, works.....lb. No prices
Tartrate, dms., wks., frt.alld. lb. .92 - 1.02
Dibutylamine, dms., c.l., works. lb. .76 - —
l.c.l. works.....lb. .79 - —
Dichlorodiphenyltrichlorethane (see DDT).



BENZYL BENZOATE

DDT (Government Specifications)

ERGOSTEROL (Non-Irradiated)

TRICRESYL PHOSPHATE

MONTROSE Chemical Company
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N.Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

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Prepared Monthly by U. S. Industrial Chemicals, Inc.

U.S.I. CHEMICAL NEWS

May ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1947

Protein Synthesis Theory May Conquer Diseases

A new theory of protein synthesis, which may solve virus structure and lead to the conquest of some deadly diseases such as cancer and polio has been announced. By application of the new theory, hope exists that a "blue print" of protein structure may be obtained. Such a "blue print" would not only aid chemistry and all biological sciences, it is asserted, but also mark the beginning of "deductive medicine," offering the possible prevention and cure of a number of still troublesome leading diseases.

Fast Action Claimed for New British Anesthetic

A drug reported to be used for large or short term anesthesia, is one of Britain's current contributions to the pharmaceutical industry. It is said to be an ultra-fast-acting barbiturate with a higher safety factor than existing intravenous anesthetics. Chemically, it is the sodium salt of 5-(2-cyclohexenyl)-5-allyl-2-thiobarbituric acid.

New A.S.T.M. Standards On Cement Now Available

The 1946 edition of "A.S.T.M. Standards on Cement" presents in convenient form six standard specifications for Portland and other types of cement, as well as the latest approved physical and chemical testing methods. Copies are now available.

Two New Enamels Resist Heat, Acids

A ceramic coating which will withstand prolonged exposures to temperatures up to 1250 degrees F., and an acid-resisting porcelain enamel are reported to be two of the outstanding recent developments in the field of enameling. The ceramic coating, consisting of 80 per cent frits and a 20 per cent admixture of alumina, was used extensively by the Army and Navy on exhaust systems of aircraft and other engines. The acid-resisting coating is described as a titanium opacified porcelain enamel which produces sufficient opacity (white covering power) at 15 to 18 grams per square foot.

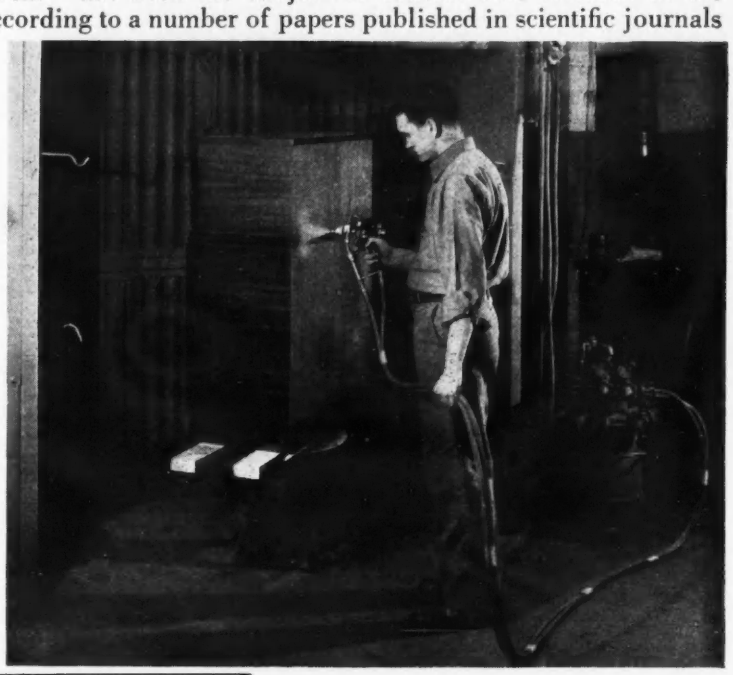
Hints on Solvent Safety Reduce Plant Accidents

Central storage and supervised distribution of organic solvents may prevent plant accidents such as fire, dermatitis and vapor poisoning, according to a statement issued by the Safety Research Institute. Proper and responsible handling of these chemicals would include correct labeling of solvent containers, and the issuing of requisition forms to check misuse, the Institute advises.

New Fields of Application Opened For Ethyl Acetate

Versatile Solvent and Chemical Used in Many Novel Organic Syntheses — New Analytical Method Announced

Ethyl acetate — perhaps the best known, most versatile, and most widely used nitrocellulose solvent — has been the subject of considerable research in the last three years, according to a number of papers published in scientific journals throughout the world. Highlighting chemical advances made on this compound is a new analytical method for its determination in the presence of acetic acid. Other discoveries involve a process for the recovery of ethyl acetate from aqueous solutions, and a number of new syntheses ranging from Grignard reactions to the preparation of 1-(2-pyridyl)-2-propanone.



COATINGS. New uses for ethyl acetate have appeared in recent years, but most important applications are still in the coatings field. This chemical is the best-known, most versatile and most widely-used solvent for nitrocellulose.

New Analytical Method

The standard method of determining ethyl acetate in the presence of acetic acid has always given erratic results owing to the consumption of alkali by acetic acid in an unpredictable manner, according to a paper published in an American scientific journal. The method proposed by the authors obviates this difficulty. This new method is said to produce extremely reliable results.

Recovery from Aqueous Solutions

Ethyl acetate may be readily recovered from aqueous solution by means of a method and apparatus described in a recent U. S. patent. According to the inventor, the solution is passed downwardly through an absorption filter containing a sorptive medium such as active carbon. The active carbon, in the form of grains, recovers the ethyl acetate.

The second phase of the process involves the freeing of the ethyl acetate from the sorptive medium. This is reported to be done by heating the activated carbon until the absorbed ethyl acetate is vaporized, then condensing the vapor.

(*Continued on next page*)

Printers' Type Now Made from Plastics

A new printers' type, said to be lighter and easier to store than the traditional metal type, is made from a thermoplastic molding material, according to a recent announcement. The type is claimed to be unaffected by corrosion or the effects of humidity and to produce better reproductions than can be obtained with metal type. It is also claimed that the wearing qualities are as good as conventional types.

Amyl Acetate Used in New Hydraulic Fluid

A new hydraulic fluid, said to be useful in gun recoil piston cylinders and shock absorbers, is described in a patent issued recently According to the inventor, the new fluid has a boiling point of approximately —50 degrees F. and a Saybolt Universal viscosity in the range from 300 seconds at —40 degrees F. to 35 seconds at +200 degrees F. It is stated to be composed of amyl acetate, chloromethyl stearate, and a pour-point depressant.

New Roughness Tester

A new device that measures roughness and promises to improve quality and efficiency of rubber goods production has just been announced. It operates by measuring the resistance to passage of a stream of compressed air between the rough surface being tested and a smooth plate resting upon it.

ADVERTISEMENT—*This entire page is a paid advertisement*

May ★ **U.S.I. CHEMICAL NEWS** ★ 1947

New Fields of Application Opened for Ethyl Acetate

(Continued from page one)

New Synthetic Uses

Most recent of the new synthetic uses of ethyl acetate involves its reaction with lithium picolyl. According to a French paper, the reaction product is: 1-(2-pyridyl)-2-propanone.

Anthraquinone may also be manufactured from ethyl acetate, according to the claims made by a Russian scientist. In this synthesis, benzol reacts with ethyl acetate in the presence of aluminum chloride to form 9,10-dimethyl anthracene, which is readily converted by oxidation to anthraquinone.

Other new ethyl acetate syntheses are reported to produce ethyl iodide from iodine, mesitol (2, 4, 6-trimethyl phenol) from 2-mesityl-magnesium bromide, butyl ketone from butyl magnesium chloride, and tetra acetyl-silicates from silicon tetrachloride.

New Use in Plastics

A Russian process makes use of ethyl acetate to produce polyvinyl acetate. This compound is prepared by polymerizing vinyl acetate in the presence of ethyl acetate. The solid polymer is obtained by steam-distilling the solvent.

Standard Applications

Ethyl acetate is the standard medium-evaporating solvent for nitrocellulose lacquers. Some of the qualities that have contributed to its popularity are: low cost, ready availability, strong solvent power, speed of solution, mild and non-residual odor, and compatibility with practically all solvents, diluents, plasticizers, and resins in common use.

As a nitrocellulose solvent, ethyl acetate is used in the manufacture of artificial pearls and leather, lacquers, linoleum, plastic wood, washable wall-paper, and numerous other products. It is also employed in the preparation of candy glaze, embalming fluids, perfumes, smokeless powder, and rayon.

Commercial ethyl acetate is a solvent for cellulose acetate and is used along with acetone in the manufacture of cellulose acetate products, including artificial silk, film, sheeting, transparent paper, moulding powder and lacquer.

ARTIFICIAL LEATHER is made by a process in which ethyl acetate is an essential ingredient. Chemical research is opening new fields of application for this versatile compound.

Milder Iodine Tincture

The new edition of the Pharmacopoeia has just announced that the old 7 per cent tincture of iodine will be replaced by a 2 per cent tincture. The change is being made because the milder tincture is stated to be just as efficient as an antiseptic and a germicide, and to give no burning sensation.

Soapless Shampoo Formula

Since detergent soapless shampoos are freezable, alcohol in quantities varying from 10 to 20 per cent should be added to depress the freezing point, according to a recent announcement. Care is said to be necessary in allotting the proper amount of alcohol to prevent interference with the efficacy of surface active agents.

TECHNICAL DEVELOPMENTS

Further information on these items may be obtained by writing to U.S.I.

A paint-spray protector, described as a plastic which can be applied with a brush, is said to provide complete paint spray protection. It is claimed to dry within five minutes, to be waterproof and airproof, and to peel off easily in large sheets. **(No. 190)**

USI

To withstand 3000 deg. F., a new concrete has been invented to fill a need in the construction of industrial furnaces. The material is supplied in dry form, ready mixed. **(No. 191)**

USI

A photographic slide rule is said to compute problems for photographers in a matter of seconds. Typical problems are: depth of field, gamma factor, and correct exposure with various meters. **(No. 192)**

USI

A new laboratory marking pencil features an automatic valve control for regulating ink flow, and may be carried around like a pencil, the manufacturer states. **(No. 193)**

USI

An antifouling paint is described as an improved type of coating that protects underwater surfaces against accumulation of marine organisms for up to four times as long as ordinary treatments.

USI **(No. 194)**

To print photographs in the light, a daylight printing paper has been invented that is claimed to key a photographic emulsion to a narrow band of "black light," and to desensitize it to ordinary light. **(No. 195)**

USI

A new-type mothproofing compound, claimed to be effective for the life of the material treated, is described as being resistant to dry cleaning and laundering. **(No. 196)**

USI

To replace natural gums as printing thickeners, a new colorless starch derivative is now being marketed. **(No. 197)**

USI

An ice remover, described as a powder, is said to destroy ice upon contact. After the ice has been removed, an anti-freeze element in the compound will prevent the ice from re-forming, the makers claim. **(No. 198)**

USI

Quantitative odor determinations are now possible according to a new system which specifies the odor of any product or material in terms of a 4-digit number. Odor values are said to be judged by reference to objective standards.

USI **(No. 199)**

A free specially prepared pamphlet for feed users and dealers on the use of riboflavin in feeds is now available. **(No. 200)**

USI

To produce a rust-resistant finish on steel parts that will not peel, rub off, crack or chip, is the purpose of a new product now on the market.

USI **(No. 201)**

U.S.I INDUSTRIAL CHEMICALS, INC.

60 EAST 42ND ST., NEW YORK 17, N. Y. U.S.I. BRANCHES IN ALL PRINCIPAL CITIES

ALCOHOLS
Amyl Alcohol
Butanol (Normal Butyl Alcohol)
Fusel Oil—Refined

Ethanol (Ethyl Alcohol)
Specially Denatured—all regular and anhydrous formulas
Completely Denatured—all regular and anhydrous formulas
Pure—190 proof, C.P. 96% Absolute
*Super Pyro Anti-freeze
*Solox proprietary Solvent

***ANSOLS**
Ansol M
Ansol PR

*Registered Trade Mark

ACETIC ESTERS
Amyl Acetate
Butyl Acetate
Ethyl Acetate

OXALIC ESTERS
Dibutyl Oxalate
Diethyl Oxalate

PHTHALIC ESTERS
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate

OTHER ESTERS
*Diatol
Diethyl Carbonate
Ethyl Chloroformate
Ethyl Formate

INTERMEDIATES
Acetoacetanilide
Acetoacet-ortho-anisidide
Acetoacet-ortho-chloranilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloranilide
Alpha-acetylbutyrolactone
5-Chloro-2-pentanone
5-Diethylamino-2-pentanone
Ethyl Acetoacetate
Ethyl Benzoylacetate
Ethyl Alpha-Oxalpropionate
Ethyl Sodium Oxalacetate
Methyl Cyclopropyl Ketone

ETHERS
Ethyl Ether
Ethyl Ether Absolute—A.C.S.

FEED CONCENTRATES
Ribbflavin Concentrates
*Vacatone 40
*Curbay B-G *Curbay Special Liquid

ACETONE
Chemically Pure

RESINS
Ester Gums—all types
Congo Gums—raw, fused & esterified
*Aroplaz—alkyds and allied materials
*Arofene—pure phenolics
*Arochem—modified types
Natural Resins—all standard grades

OTHER PRODUCTS
Collodions
Ethylene
Ethylene Glycol
Urethan
Nitrocellulose Solutions
dl-Methionine

Printed in U.S.A.

Dichloroethyl ether, purified, dms., c.l., works, frt. equald with So. Charleston..lb. .13½- —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12½- —
Diethanolamine, dms., c.l., frt. alld in E..lb. .23½- —
l.c.l., same basis.....lb. .24½- —
tanks, same basis.....lb. .22½- —
Diethyl carbonate, dms., l.c.l..lb. .40 - —
Oxalate, dms., c.l.....lb. .35½- —
l.c.l. .....lb. .36½- —
tanks .....lb. .34 - —
Phthalate, dms., c.l., divd..lb. .29¼- —
dms., l.c.l., divd.....lb. .30 - —
tanks, divd.....lb. .28 - —
Sulphate, dms., c.l., works..lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Diethylamine, dms., c.l., works, lb. .69 - —
l.c.l., works.....lb. .71 - —
tanks, works.....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss. R..lb. .75 - —
Diethylaniliin, dms. .....lb. .48 - —
Diethyleneglycol, dms., c.l. frt. alld. in E...lb. .14 - —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Monobutylether, dms., c.l., wks. lb. .22 - —
l.c.l., works .....lb. .23 - —
tanks, works.....lb. .21 - —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Diethylstilbestrol, bots.....kilo. 270.00 -280.00
Digitalin, cryst., bots.....gram. 29.00 -30.00
powd., bots.....gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. 1.05 - 1.15
Digiycol laurate, dms.....lb. .31 - .32
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .23 - —
Dihydroxydichlorodiphenylmethane, dms., works of N.Y.met.lb. .95 - 1.00
smaller containers, same basis, lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works. lb. .19 - —
Di-isobutylene, dms., c.l., works. lb. .07 - —
l.c.l., works.....lb. .07½- —
tanks, works.....lb. .05½- —
Dilseed, decorticated, bgs.....lb. .12½- .13
dewhiskered, bgs.....lb. .10 - .10½
Dimethyl phthalate, dms., c.l., divd..lb. .22¼- —
l.c.l., divd. .....lb. .23 - —
tanks, divd. .....lb. .21 - —
Dimethylamine, anhyd., cyl., frt. alld. E. of Miss., 100% basis, lb. .40 - —
solution, dms., works, frt. alld. E. of Miss., 100% basis..lb. .37 - .47½
tanks, same basis.....lb. .36 - —
Dimethylaniliin, dms., c.l. ....lb. .21 - .24¼
l.c.l. .....lb. .22 - —
Dinitrobenzene, bbls. .....lb. .16 - —
Dinitrochlorobenzene, dms.....lb. .14 - .15½
Dinitronaphthalene, kgs. .....lb. .35 - .38
Dinitrophenol, bbls. .....lb. .22 - —
Dinitrotoluene, rfd., dms.....lb. .18 - —
oily, dms.....lb. .07 - .07¾
Diorthotolylguanidin, dms., ten lots, divd..lb. .44 - —
smaller lots, divd.....lb. .46 - .47
Dioxan, dms., c.l., frt. alld.....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, destructive dist., dms., extra, wks., South, c.l., gal. .66 - —
tanks, wks., South.....gal. .60 - —
steam-dist., dms. .....gal. .80 - —
tanks, divd. E.....gal. .77 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works .....lb. .16 - .20
Oxide, perfume grade, cns...lb. .50 - .61
dms. .....lb. .45 - .56
Diphenylamine, bbls. .....lb. .25 - —
Diphenylguanidin, dms., tens..lb. .35 - —
smaller lots .....lb. .36 - .37
Divi-divi, 38% tannin, c.l., U.S. ports, ex dock..ton. 63.00 -65.00
Doggrass root, dom., cut, bls.lb. .34 - .35
imp., N.F., cut, bls.....lb. .40 - .45
Dogwood, Jamaica, bark, bls..lb. .12 - .14
Dover's powder, USP, cns....lb. No stocks.
Dragon's blood, drops, cs.....lb. .45 - .47
reeds, cs.....lb. No stocks.
Dyes, coaltar (certified colors for foods, drugs and cosmetics), 5-lb. lots):—
Blue, FD&C, No. 1, cns....lb. 13.00 - —
Green, FD&C, No. 1, cns...lb. 13.00 - —
No. 2, cns.....lb. 17.00 - —
No. 3, cns.....lb. 27.00 - —
Orange, FD&C, No. 1, cns..lb. 2.80 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns....lb. 5.75 - —
No. 2, cns.....lb. 3.05 - —
No. 3, cns.....lb. 17.00 - —
No. 4, cns.....lb. 5.50 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1, cns...lb. 8.00 - —
No. 3, cns.....lb. 2.55 - —
No. 4, cns.....lb. 2.55 - —
No. 5, cns.....lb. 3.05 - —
No. 6, cns.....lb. 3.05 - —
Dyes, coaltar (certified colors for drugs and cosmetics), 1-lb. lots:—
Black, D&C, No. 1, cns.....lb. 8.35 - —
Blue, D&C, No. 4, cns.....lb. 12.35 - —
Brown, D&C, No. 1, cns....lb. 12.35 - —
Green, D&C, No. 5, cns.....lb. 12.35 - —
No. 6, cns.....lb. 12.35 - —
Orange, D&C, No. 3, cns....lb. 8.35 - —
No. 4, cns.....lb. 13.35 - —
No. 10, cns. .....lb. 15.85 - —
Red, D&C, No. 8, cns.....lb. 2.85 - —
No. 17, cns. .....lb. 8.35 - —
No. 18, cns. .....lb. 15.35 - —
Yellow, D&C, No. 7, cns....lb. 8.35 - —
8, cns.....lb. 8.35 - —
No. 11, cns. .....lb. 10.35 - —
No. 19, cns. .....lb. 15.35 - —
No. 22, cns. .....lb. 8.35 - —
No. 33, cns. .....lb. 13.35 - —
No. 37, cns. .....lb. 12.35 - —
Dyes, coaltar (certified colors for external use drugs and cosmetics), 1-lb. lots—
Blue, Ext. D&C, No. 1, cns..lb. 12.35 - —
Green, Ext., D&C, No. 1, cns. lb. 12.35 - —
Red, Ext., D&C, No. 1, cns..lb. 10.35 - —
No. 3, cns.....lb. 21.85 - —
No. 8, cns.....lb. 7.85 - —
No. 10, cns.....lb. 12.35 - —
No. 13, cns.....lb. 12.35 - —
Yellow, Ext., D&C, No. 1, cns. lb. 8.35 - —
Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
81 Chrome yellow, 2G..lb. .65 - .70
40 Chrome yellow R....lb. .50 - 1.00
53 Victoria violet.....lb. .80 - 1.00
165 Lake red C.....lb. .70 - .80
170 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste..lb. .85 - .90
189 Lake red R, powd...lb. 3.00 - 3.10
202 Chrome blue black U.lb. .35 - .42
204 Chrome black A....lb. .42 - .45
208 Fast red blue R.....lb. .75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. .60 - .80

Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
289 Fast cyanin 5R.....lb. .90 - 1.00
299 Chrome black F.....lb. .35 - .88
304 Paper yellow.....lb. .88 - .90
307 Fast cyanin black B.lb. .80 - .85
326 Direct fast scarlet...lb. 2.00 - 2.25
363 Chyrophenin G.....lb. .58 - .70
382 Direct scarlet B.....lb. 1.15 - 1.20
387 Direct violet B.....lb. 1.00 - 1.30
394 Direct violet N.....lb. .80 - .95
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .66 - .70
415 Direct orange B.....lb. .60 - .70
419 Direct fast red F....lb. .70 - .73
420 Direct brown M.....lb. .55 - .57
448 Benzo purpurin 4B...lb. .65 - .68
405 Benzo purpurin 10B..lb. .40 - .50
502 Direct azorin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
516 Direct pure blue 6B..lb. 1.20 - 1.30
520 Direct pure blue.....lb. .50 - 1.00
529 Direct fast black FF.lb. .55 - 1.00
581 Direct black EW....lb. .50 - .54
582 Direct black RX....lb. .35 - .45
592 Direct green B.....lb. .50 - .55
594 Direct green G.....lb. .50 - .55
596 Direct brown 3GO...lb. .85 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50
688 Acid violet.....lb. 1.00 - 3.00
812 Primulin .....lb. .70 - .73
814 Direct fast yellow...lb. 2.00 - 2.25
945 Nigrosin (water soluble). lb. .35 - .50
1177 indigo, 20%, paste...lb. .15 - .18
Benzo fast black L.lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .45 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon....lb. .40 - —
Sulphur tan.....lb. .30 - .50
Sulphur olive.....lb. .25 - .54
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .80

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).
Black—
865 Nigrosin derivatives..lb. .36 - .44
Blue—
7075 Alizarin astral base..lb. 13.00 - —
1073 Alizarin cyanin, green base..lb. 6.00 - —
Brown—
Brown, oil soluble.....lb. 1.15 - —
Green—
1078 Alizarin cyanin green base..lb. 5.00 - —
Orange—
24 Sudan I.....lb. .75 - —
Red shade.....lb. .75 - —
Red—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .85 - —
680 Oil violet.....lb. .60 - —
749 Rhodamine B (oil pink). lb. 2.50 - —
1090 Anthraquinone, violet base..lb. 6.00 - —
Yellow—
16 Amidoazobenzene yellow. lb. .90 - —
17 Amidoazotoluene yellow. lb. .75 - —
61 Yellow, OB.....lb. 1.40 - 2.00

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up 3c. per lb. higher, sellers' works or warehouse).
Black—
246 Naphthol blue black S.. lb. .50 - —
729 Victoria blue B.....lb. 1.85 - —
861 Indulin .....lb. .87 - —
878 Methylene gray.....lb. 1.50 - —
909 New blue P.....lb. 1.20 - —
922 Methylene blue.....lb. 1.00 - —
1054 Alizarin saphirol B...lb. 1.90 - —
1130 Indigotin IA.....lb. .85 - —
Blue—
714 Patent blue A.....lb. 1.05 - 1.10

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up. 3c. per lb. higher, sellers' works or warehouse).
Brown—
231 Bismarck brown G...lb. .47 - .62
234 Resorcin brown Y....lb. .65 - —
235 Resorcin dark brown R. lb. .65 - —
632 Bismarck brown R....lb. .47 - .62
793 Phosphin .....lb. 4.65 - —
Green—
5 Naphthol green B....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B...lb. 1.55 - —
1078 Alizarin cryanin green.. lb. 2.00 - —
Orange—
10 Chrysodin G.....lb. .44 - —
21 Chrysodin R.....lb. .41 - —
27 Orange G.....lb. .50 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B. lb. .68 - —
151 Orange Y.....lb. .31 - .32
161 Orange R.....lb. .34 - —
Red—
79 Ponceau R.....lb. .48 - —
88 Fast red B.....lb. 1.65 - —
176 Fast red A.....lb. .54 - —
179 Azorubin .....lb. .60 - —
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crocein M...lb. .68 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6B.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.45 - —
Violet—
680 Methyl violet B.....lb. .70 - .75
681 Crystal violet B....lb. 1.75 - —
695 Acid violet 4BN.....lb. .88 - —

Purchasing agent "making big deal" for a better steel container

If your product is solid, semi-solid, or liquid, there's a Continental steel container to package it. Continental makes a complete line of top-quality light and heavy gauge pails and drums, large and small, for hundreds of uses.

SPECIAL NOTE TO MANUFACTURERS: *Consumers of your products rate these containers high because of their long re-use value around the plant or on the farm. This is a plus value to remember.*

A COMPLETE LINE OF STEEL SHIPPING CONTAINERS

The Triple-C means best in quality, service

CONTINENTAL CAN COMPANY

100 East 42nd Street, New York 17, N. Y.

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up, 2c. per lb. higher, sellers' works or warehouse).
Yellow—
10 Naphthol yellow S....lb. .83 - —
158 Metanil yellow.....lb. .56 - .58
636 Fast light yellow.....lb. 1.25 - —
639 Xylene light yellow...lb. 1.15 - —
640 Tartrazin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —
Dyes, coaltar, for stains, water-soluble (prices E, in barrels of 250 lbs. each; 25-lb. lots and up 8c. per lb. higher, sellers' works or warehouse).
Black—
864 Nigrosin .....lb. .36 - .44
Blue—
860 Indulin .....lb. .68 - .70
Brown—
831 Bismarck brown.....lb. 1.50 - —
Green—
637 Malachite, green base—lb. 2.00 - —
Orange—
20 Chrysoidin G.....lb. .95 - —
Red—
677 Fuchsin, magenta, base, lb. 7.25 - —
749 Rhodamine R.....lb. 4.75 - —
Yellow—
67 Amidoazotoluene yellow. lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS...lb. 2.00 - —
Violet—
680 Methyl violet base..lb. .85 - —
Dyes, natural (see name of article).

E

Echinacea root, bls.....lb. .70 - .75
Egg, albumen (see Albumen).
Yolk, dried, dom., bbls....lb. 1.25 - 1.30
imported .....lb. No stocks
Elder flowers, bright, bls.....lb. .75 - .80
Elecampane root, bls.....lb. .45 - .50
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb. .55 - .56
select, bndls.....lb. .55 - .56
Emetine hydrochloride, bots..oz.53.50 -54.00
Ephedra, bls.....lb. .20 - .21
Ephedrine, synthetic, USP anhydrous, bots, 100-oz. lots..oz. .84 - —
hydrous, bots., 100-oz. bots. oz. .76 - —
Hydrochloride, tin, 100 ozs..oz. .60 - —
Sulphate, cryst., tins, 100 ozs. oz. .57 - —
powd., tins, 100-oz. lots..oz. .58 - —
Epichlorohydrin, dms., c.l., works. lb. .46 - —
l.c.l., works .....lb. .46½- —
tanks, works .....lb. .44½- —
Epinephrine, synth., USP, bots.. gram. .70 - .95
Epsom salt, tech., cryst., bgs., c.l..100 lbs. 2.05 - —
l.c.l. .....100 lbs. 2.40 - 2.65
USP, cryst., bgs., c.l..100 lbs. 2.25 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.50 - —
smaller lots....100 lbs. 2.75 - —
bbls., c.l. .....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots ....100 lbs. 2.85 - —
kgs., c.l. .....100 lbs. 2.60 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.85 - —
smaller lots .....100 lbs. 3.10 - —
Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland.
Ergot, USP, cns.....lb. 1.25 - 1.30
Eserine, bots. .....oz. No prices.
Sulphate, bots. .....oz.65.00 - —
Ether, acetic (see Ethyl acetate).
Amyl (see Amyl ether).
Butyl, l.c.l., dms., dlvd.....lb. .30 - —
Ethyl (see Ether, sulphuric).
Nitrous, cons., bots., 100-lbs.lb. .98 - 1.10
Ether, sulphuric, cons., dms..lb. .11 - .16
USP, anesthesia, hospital, 1-lb. cns..lb. .60 - .61
Synthetic, dms., c.l., frt. alld. lb. .18 - —
l.c.l., same basis.....lb. .19 - —
tanks, same basis.....lb. .16 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld..lb. .20½- —
l.c.l., frt. alld.....lb. .21½- —
tanks, frt. alld.....lb. .19 - —
95-98%, dms., c.l., frt. alld. lb. .23 - —
l.c.l., frt. alld.....lb. .24 - —
tanks, frt. alld.....lb. .21½- —
99%, dms., c.l., frt. alld.lb. .21 - —
l.c.l., frt. alld.....lb. .22 - —
tanks, frt. alld.....lb. .19½- —
USP, dms. .....lb. .27 - —
synthetic, 85-90%, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .11 - —
tanks, frt. alld.....lb. .09½- —
95-98%, dms., c.l., frt. alld. lb. .11 - —
l.c.l., frt. alld.....lb. .11½- —
tanks, frt. alld.....lb. .10 - —
Acetoacetate, dms., c.l., works, lb. .50½- —
l.c.l., frt. alld.....lb. .51½- —
Benzoate, bots. .....lb. .50 - .52
B-ethoxy proprionate, dms., works..lb. .70 - —
Bromide, tech., 98%+, dms..lb. .36 - .40
Carbamate, dms., dlvd. E...lb. .58 - —
Chloride, tech., tanks.....lb. .13½- —
USP, bbls., cyl.....lb. .20 - .22
Cinnamate, cns. .....lb. 2.60 - 3.25
Formate, dms., Agnue, Calif..lb. .26 - .32
Iodide, bots .....lb. 3.50 - 3.60
Lactate, dms., works.....lb. .38½- —
Myristate, dms., works.....lb. No prices.
Oenanthate, dms.....lb. 2.60 - 3.25
Oleate, dms., l.c.l., works..lb. .47 - —
Oxalate, dms., frt. alld....lb. .33 - —
Ethyl silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works..lb. .50 - —
Soyate, 3%-3.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate, dms. .....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —
Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.
Ethylcellulose, pkgs., 5,000 lbs., or more, works..lb. .57 - —
smaller lots, works.....lb. .59 - .67
Ethyldiethanolamine, dms., l.c.l., works..lb. .80 - —
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies..lb. .08 - —
West of Rockies.....lb. .08½- —
l.c.l., works, frt. alld. E. of Rockies..lb. .09 - —
West of Rockies.....lb. .09½- —
tanks, frt. alld. E. Rockies, lb. .07 - —
West of Rockies.....lb. .07½- —
Trichloride (see Trichloroethane).
Ethyleneglycol, dms., c.l., frt. alld. in E..lb. .12 - —
l.c.l., same basis.....lb. .13 - —
tanks, same basis.....lb. .11 - —
Monobutylether, dms., c.l., wks. lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16½- —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Monoethylether, acetate, dms., c.l., works..lb. .13½- —
l.c.l., works.....lb. .14½- —
tanks, works.....lb. .12½- —
Monomethylether, dms., c.l., works..lb. .16½- —
l.c.l., works.....lb. .17½- —
tanks, works.....lb. .15½- —
Ethylethanolamine, dms., c.l., works..lb. .57 - —
l.c.l., works.....lb. .60 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots..oz.10.50 -10.75
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots.....lb. 6.80 - 6.90
Eucalyptol, cns., dms.....lb. 2.85 - 3.25
Eucalyptus leaves, bls.....lb. .14 - .15
Eugenol, prime, USP XII.....lb. 2.60 - 8.50
Euphorbia, bls.....lb. .20 - .22

F

Feldspar, enamel, 100 mesh, bgs. ton.17.00 -20.50
bulk, c.l.....ton.14.00 -17.50
glass, 20 mesh, bgs., works, min. 2 tons..ton.12.75 -16.25
bulk, c.l.....ton. 9.75 -12.25
pottery, bgs., l.c.l., works, min. 2 tons..ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00
Fennel seed, Argentine, bgs., futures..lb. .11 - .11½
Indian, bgs., afloat.....lb. .18 - .18¾
Fenugreek, domestic, bgs.....lb. No stocks
Indian, bgs.....lb. .09½- .10
Morocco, bgs.....lb. .11½ Nom.
futures, bgs.....lb. .10½- .11
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works.lb. .13½- .15
water-white, cs., works.....lb. .14½- .17
Fir balsam, Canada, cns.....gal.23.50 -24.00
Oregon, bbls. .....gal. 2.45 - 2.55
Fishberries, bgs.....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., E. works..ton.130.00 - —
65% protein, bgs., E. works. ton.130.00 - —
Fishscrap, dried, 60% protein, bulk, East coast..ton.110.00 -120.00
Flake white, bbls.....lb. .09 - —
kegs .....lb. .11 - —
Fleaseed, black, bgs.....lb. .55 - .60
Blonde, bgs.....lb. .31 - .33
Fluorspar, No. 1, ground 95-98% CaF_2 bulk, c.l., mines, net ton.37.00 - —
Washed, gravel, 70% or more CaF_2, c.l., bulk, mines, ton.33.00 - —
65%, c.l., bulk, mines....ton.32.00 - —
60%, c.l., bulk, mines....ton.31.00 - —
less than 60%, c.l., bulk, mines..ton.30.00 - —
Formaldehyde, bbls., c.l., works, lb. .0645- —
l.c.l., works.....lb. .0695- —
dms., extra, c.l., works.....lb. .0545- .0580
l.c.l., works.....lb. .0595- .0630
tanks, works.....lb. .0370- .0420
tanktrucks, dlvd. N.Y.C...lb. .0395- —
Fringetree bark, bls.....lb. .75 - .76
Fuller's earth, dom., powd., bags., c.l., Fla., Ga. mines..ton.30.00 - —
Tex. mines.....ton.27.00 - —
spent, bulk, Bayonne...ton. 6.00 - —
imp., bgs., c.l.....ton.30.00 - 40.00
Furfural, tech., dms., c.l., works. lb. .13 - —
l.c.l., cns., dms.....lb. .15½- .20½
tanks, works.....lb. .09½- —
Fusel oil, dms., c.l.....lb. .26½- —
l.c.l. .....lb. .27½- —
tanks .....lb. .25 - —
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .41 - —
No. 1A, bbls., l.c.l.....lb. .40 - —
No. 2, bbls., l.c.l.....lb. .39 - —
No. 3, bbls., l.c.l.....lb. .37 - —
liquid, No. 0, bbls., l.c.l...lb. .21½- —
No. 1, bbls., l.c.l.....lb. .20 - —
No. 2, bbls., l.c.l.....lb. .19 - —
No. 3, bbls., l.c.l.....lb. .16½- —
solid, No. 1, bxs., l.c.l....lb. .27 - —

G

G salt, bbls.....lb. .50 - —
Galangal root, bls.....lb. .26 - .28
Gambier, cube, Singapore, cs..lb. No stocks
Extract, bbls.....lb. No stocks
Gammapicoline, 95%, dms., c.l., works..lb. 1.35 - —
Gasoline, at refinery, ex tax Arkansas, 73-75 octane, tanks, gal. .0825- —
Bayonne, 74 octane, tanks, gal. .0780- .09
Gulf Coast, 73-75 octane, tanks..gal. .0825- .085
Group 3, 73-75 octane, tanks, gal. .0775- .0825
Pennsylvania, western, U. S., motor, 74 octane, leaded, tanks..gal. .0825- .0925
natural, 26/70 octane, Group 3, tanks..gal. .05375- —
Gelatin, silver label, ctns., dlvd. lb. 1.25 - —
export, cs.....lb. 1.35 - —
Silver label prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.

U·S·S Steel Drums

Galvanized..
Tinned.....
Painted.....
Decorated...
Stainless....

MODERN
PRODUCTION METHODS

UNSURPASSED
LITHOGRAPHING FACILITIES

MANUFACTURED FROM USS STEEL UNITED STATES STEEL

UNITED STATES STEEL PRODUCTS COMPANY
30 Rockefeller Plaza, New York 20, N. Y.
BENNETT MANUFACTURING DIVISION, *Chicago and New Orleans*
BOYLE MANUFACTURING DIVISION, *Los Angeles and Alameda, California*
PETROLEUM IRON WORKS DIVISION, *Sharon, Pa., Beaumont and Port Arthur, Texas*

UNITED STATES STEEL

Gelsemium root, bls......lb. .35 - .40
Gentian root, bls......lb. .20 - .21
grd., bbls., bxs......lb. .26 - .27
powd., bbls., bxs......lb. .24 - .25
Geraniol, 92-96%, cns., dms....lb. 9.00 -11.00
Geranyl acetate, cns.....lb. 9.00 - —
Ginger, African, No. 1, bls...lb. .14½ - .15
Calicut, Romeo-type, bgs...lb. .16 - .16½
Cochin, bleached, bgs.....lb. .16 - .16½
unbleached, bgs. .....lb. .14 - .14½
Jamaica, No. 1, bgs.....lb. .18 - .18½
No. 2, bgs.....lb. .16 - .16½
No. 3, bgs.....lb. .15¼- .16¾
Rhattoon, bgs. .....lb. .14½ Nom.
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., works....100 lbs. 1.25 - 1.75
l.c.l., bgs., works..100 lbs. 1.65 - 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest. lb. .21 - —
30/56, bgs., c.l., same basis. lb. .21 - —
58/82, bgs., c.l., same basis. lb. .17 - .22½
82/108, bgs., c.l., same basis..lb. .18½- .23½
Bone glue, l.c.l. prices 1c. higher than c.l.
Hide, 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .21 - —
122-149, bgs., c.l., dlvd....lb. .22 - —
150-177, bgs., c.l., dlvd....lb. .23 - —
178-206, bgs., c.l., dlvd....lb. .24 - —
207-236, bgs., c.l., dlvd....lb. .25 - —
237-266, bgs., c.l., dlvd....lb. .26 - —
267-298, bgs., c.l., dlvd....lb. .27 - —
299-330, bgs., c.l., dlvd....lb. .28 - —
331-362, bgs., c.l., dlvd....lb. .29 - —
363-394, bgs., c.l., dlvd....lb. .30 - —
395-427, bgs., c.l., dlvd....lb. .31 - —
428-460, bgs., c.l., dlvd....lb. .32 - —
461-494, bgs., c.l., dlvd....lb. .33 - —
495-529, bgs., c.l., dlvd....lb. .34 - —
Hide glue l.c.l., prices 1c. higher than c.l. bbls., ½c. over bgs.
Glycerine, crude, saponification, 88%, to refiners, tanks..lb. .40 - .45
soapiye, 80%, tanks.....lb. .30 - .35
dynamite, dms., c.l......lb. .50¼- —
l.c.l. .....lb. .50¾- —
tanks .....lb. .50 - —
high gravity, dms., c.l.....lb. .50¼- —
l.c.l. .....lb. .50¾- —
tanks .....lb. .50 - —
refined, B.P., 98%, dms., c.l.lb. .50¾- —
tanks .....lb. .50½- —
USP, 95%, dms., c.l.....lb. .50¼- —
l.c.l. .....lb. .50¾- —
tanks .....lb. .50 - —
yellow, distilled, dms., c.l...lb. .50 - —
tanks .....lb. .50 - —
Glycine, USP (see Acid, ammocetic).
Glycol, boriborate, dms.....lb. .22 - —
Stearate, dms.....lb. .26 - —
Gold chloride, acid-brown, bots. oz.20.00 -20.50
acid-yellow, bots.....oz.18.75 -19.00
Gold-soda chloride, photo, bots. oz.13.00 -13.50
USP IX, bots.....oz.14.00 -14.50
Goldenseal roots, bls.....lb. 8.50 - 8.75
pwd., bxs.....lb. 9.00 - 9.25
Gold of pleasure, seed, bgs., futures..lb. .29 - .30
Grains of paradise, bgs.....lb. .30 - .31
Graphite, dom., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse..lb. .04½- —
70-75%, bgs., same basis, lb. .05 - —
75-80%, same basis....lb. .05½- —
80-85%, bgs., same basis, lb. .06 - —
85-90%, bgs., same basis, lb. .07 - —
90% and up, same basis, lb. .08 - —
imported, amorphous, powd., dlvd..lb. .04 - .06
crystalline, 88-90%, powd., same basis..lb. .14 - .16
90-92%, powd., same basis, lb. .16 - .19
97% powd., same basis..lb. .22 - .25
flake, No. 1, 90-95%, 200-lb. crtns, same basis..lb. .21 - .22
No. 2, same basis..... lb. .22 - .24
Grease, house, loose.....lb. .13¾- —
yellow, loose .....lb. .14 - —
white, choice, loose.....lb. .15 - —
Wool (see (Adeps lanae and Degras).
Green, brilliant, thioflavin toner molybdic, kgs., works..lb. 4.25 - —
tungstic, kgs., works.....lb. 3.75 - —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .31 - —
6-10%, bbls., same basis, lb. .32 - —
11-15%, bbls., same basis, lb. .33 - —
16-20%, bbls., same basis, lb. .33½- —
21-25%, bbls., same basis, lb. .34½- —
26-30%, bbls., same basis, lb. .34¾- —
31-35%, bbls., same basis, lb. .35½- —
36-40%, bbls., same basis, lb. .37½- —
41-45%, bbls., same basis, lb. .39 - —
46-50%, bbls., same basis, lb. .40¾- —
50% and over, bbls., same basis..lb. .41¾- —
reduced color, 6%, bbls., same basis..lb. .10 - —
6-10%, bbls., same basis.lb. .10¾- —
11-13%, bbls., same basis.lb. .11¼- —
14-16%, bbls., same basis.lb. .12 - —
17-19%, bbls., same basis.lb. .12¼- —
20-21%, bbls., same basis.lb. .12½- —
22-23%, bbls., same basis.lb. .12¾- —
24-25%, bbls., same basis.lb. .13 - —
26-27%, bbls., same basis.lb. .13½- —
28-29%, bbls., same basis.lb. .14 - —
30-31%, bbls., same basis.lb. .15 - —
32-33%, bbls., same basis.lb. .16¼- —
34-35%, bbls., same basis.lb. .17¼- —
36-40%, bbls., same basis.lb. .20 - —
41-45%, bbls., same basis.lb. .22¼- —
46-50%, bbls., same basis.lb. .22¾- —
51-55%, bbls., same basis.lb. .23½- —
56-60%, bbls., same basis.lb. .24 - —
61-65%, bbls., same basis.lb. .25 - —
66-70%, bbls., same basis.lb. .26¼- —
Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas Ft. Worth, 1¼c.; El Paso, 2c.). Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City and Wichita, prices are equalized with Chicago.
Chrome oxide, pure, bgs., works, lb. .30 - .33
hydrated, bbls. .....lb. .85 - —
Malachite, thioflavin, toner, molybdic, bbls., works..lb. 3.00 - —
tungstic, bbls., works.....lb. 3.40 - —
Phthalocyanin, toner, bbls., works..lb. 4.40 - 5.00
Paris (see P).
Green, tungstated, brilliant, kgs. lb. 3.00 - 4.00
emerald, kgs. .....lb. 2.60 - —
Verdigris (see V).
Green dyes (see Dyes, coaltar).
Grindelia robusta, bls. .....lb. .30 - .35
Guaiac, resin, cs.....lb. .48 - .49
Wood, bls.....lb. .35 - .36
Guaiacol, cryst., N.F., tins...lb. 1.75 - —
Liquid, NF., bots., cbys....lb. 1.80 - —
Carbonate, dms. .....lb. 2.85 - —
Guarana, powd., cs. .....lb. 2.00 - 2.10
Gum accroides (see Gum, yacca).
Aloe (see A).
Arabic, amber, sorts, bgs....lb. .14½- .15
white, sorts, 1, bgs.....lb. .28 - .29
Ammoniac, tears, cs.....lb. .90 - .95
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .79 - .75
Camphor (see C).
Copal, Congo, bgs.....lb. No prices.
East India, bgs. .....lb. No prices.
Manila, baskets .....lb. No prices.
Dammar, Batavia, AE, cs...lb. .36 - .37
F, cs. .....lb. .24 - .27
Singapore, No. 1, cs.....lb. .36 - .39
No. 2, cs.....lb. .34 - .36
Batu, bold, cs.....lb. .16 - .17
nubs, chips, bgs.....lb. .10½- —
Elemi, cns. .....lb. .29 - —
Ester, gum-resin type, dms., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.....any quantity. .20 - —
Gum, ester, wood-resin type, dms., any quantity, dlvd. Ill., Ind., etc..lb. .18 - —
Euphorbium, cs. .....lb. 1.50 Nom.
Galbanum, cs. .....lb. .95 - 1.00
Gamboge, pipes, cs.....lb. 2.40 - 2.50
powd., bbls. .....lb. 2.50 - 2.60
Ghatti, bgs. .....lb. No stocks.
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms....lb. .21 - .30
Kauri, cs. .....lb. No prices.
Locust bean, powd., bbls....lb. .50 - .60
Mastic, cs.....lb. 2.50 - 2.75
Myrrh, cs.....lb. .48 - .50
Olibanum, siftings, cs.....lb. .12 - .13
tears, cs.....lb. .27 - .45
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, bgs.....lb. .85 - .90
Scammony, cs.....lb. 1.50 - 1.55
Talha, bgs.....lb. .10 - .11
Tragacanth, No. 1, cs.....lb. 4.00 - 5.00
No. 2, cs.....lb. 3.25 - 3.50
No. 3, cs.....lb. 2.25 - 2.50
Yacca, bgs.....lb. No prices
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald..ton.22.65 - —
Harlem River, N. Y., frt. equald..ton.28.25 - —
Medicine Lodge, Kans., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald..ton.30.65 - —
Gypsum, Keen's cement, paper bgs., c.l., Southard, Okla., frt. equald..ton.17.00 - —
Sweetwater, Tex., frt. equald..ton.21.45 - —
Plaster of Paris, paper bgs., c.l., Acme, Texas, frt. equald. ton.12.50 - —
Blue Rapids, Kans., frt. equald..ton.10.50 - —
Harlem River, N. Y., frt. equald..ton.12.00 - —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.13.00 - —
Southard, Okla., frt. equald..ton.12.50 - —
Sweetwater, Tex., frt. equald..ton.12.60 - —
Stucco, paper bgs., c.l., Acme, Texas; Akron, N. Y.; Blue Rapids, Kans.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, Ohio; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard, Okla.; Sweetwater, Tex.; frt. equald..ton. 8.00 - —
Saltville, Va., frt. equald. ton. 9.00 - —
Terra alba, paper bgs., c.l., Harlem River, N. Y.; works..ton.22.50 - —
New Brighton, N. Y., same basis..ton.21.00 - —

NEW DOW DRUM!

Cuts Bromine Handling Costs!

Here's a new package, recently put into service by Dow, to make it easier for you to handle bromine! This new Dow Bromine Drum is lead-lined . . . holds ten gallons. It is easily emptied by air at a constant low pressure (about eight pounds depending upon the height it is to be lifted) by means of a simple arrangement, the essential parts of which are shown in the sketch above. Since all joints are tight, bromine vapors do not escape. There's no need for pouring bromine or for lifting the drum. When a drum is emptied a full one can easily replace the empty one.

The drum is in limited use at present, but more are being placed in service each week. Requests for shipment of Dow Bromine in these new drums may be sent to your nearest Dow sales office or direct to Midland.

THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN
New York • Boston • Philadelphia • Washington • Cleveland • Detroit • Chicago
St. Louis • Houston • San Francisco • Los Angeles • Seattle
Dow Chemical of Canada, Limited, Toronto, Ontario

CHEMICAL COMMENTS

Dichloro (Phenyl Ether) Stops Attacks of Ambrosia Beetle in Green Lumber

Chemical control of Ambrosia (pin-hole) Beetles is offered by Dichloro (Phenyl Ether). Attacks by the beetles, which bore into green timber and freshly sawed lumber of many hardwoods, are stopped by the chemical, and prolonged protection is given. An oil solution or a water emulsion may be applied to the freshly cut lumber with any type of hand or mechanically operated pressure sprayer. Since Dichloro (Phenyl Ether) mixes readily with inexpensive light oils of the kerosene range, and presents no handling difficulties, solutions are easily prepared locally.

Flexible Heat for Paint Processing

Flexible heating systems are a necessity to many paint and varnish firms, where high-temperature processing requirements vary widely. In one Midwest finishes plant, where processing temperature requirements vary from simple heating to complex sequences of heating and cooling, Dowtherm, Dow's high-temperature, low-pressure heat transfer medium has been installed. With this indirect heating system they have found that temperatures can be adjusted easily for every specific job. The company uses a 3,000,000 Btu/hr. Dowtherm vaporizer for heating and an independent liquid-phase Dowtherm cycle for cooling. Simple controls permit the two cycles to be coordinated for a variety of temperature combinations. Since installing the Dowtherm system, the company has found that heating is more efficient, processing more uniform, equipment is simpler and larger batches can be processed at a time.

Improved Ink Gloss Follows Sizing of Paper Surface with Methocel

Penetration of printing ink is minimized by a light coating of Methocel, and the gloss and brightness of inks or varnishes subsequently applied is noticeably improved. Applied as a surface sizing at the water boxes of the calender stack, Methocel deposits a film possessing a high degree of adherence to paper or paperboard. And, on waxing stock, a light prime coat of Methocel greatly reduces the penetration of paraffin, and maintains the opacity and whiteness of the original stock.

DOW
CHEMICALS INDISPENSABLE TO INDUSTRY AND AGRICULTURE
50th Anniversary 1897-1947

H

Hawthorn berries, bgs.	lb.	.60 - .65
Heliotropin, cryst., cns.	lb.	2.95 - 4.00
Hellebore, white, powd., bbls.	lb.	.46 - .47
Helonias root, bls.	lb.	2.25 - 2.30
Hematine extract, cryst., No. 0, bbls., l.c.l.	lb.	.44 - —
No. 1, bbls., l.c.l.	lb.	.43 - —
No. 1A, bbls., l.c.l.	lb.	.40 - —
No. 2, bbls., l.c.l.	lb.	.39 - —
No. 3, bbls., l.c.l.	lb.	.37 - —
No. 4, bbls., l.c.l.	lb.	.35 - —
No. 5, bbls., l.c.l.	lb.	.30 - —
paste, No. 1, bbls., l.c.l.	lb.	.18½- —
No. 2, bbls., l.c.l.	lb.	.17½- —
No. 3, bbls., l.c.l.	lb.	.16½- —
red, No. 4, bbls., l.c.l.	lb.	.12 - —
Hemlock bark extract, 25% tan, bbls., c.l., works.	lb.	No stocks
tanks, works	lb.	No stocks
Henbane leaves, bls.	lb.	1.25 - 1.75
Henna leaves, bls.	lb.	.29 - .30
powd., bbls., bxs.	lb.	.34 - .3[illegible]
Heptane, industrial grade, 90°-100° C., dms., c.l., Group 3,	gal.	.13½- .16
l.c.l., Group 3	gal.	.19 - .35
tanks, Group 3	gal.	.10¼- .10½
77°-115° C., dms., c.l., Group 3.	gal.	.13½- .17
l.c.l., Group 3	gal.	.19 - .35
tanks, Group 3	gal.	.10½- .11¼
laboratory grade, dms., c.l., Group 3.	gal.	.16 - —
l.c.l., Group 3	gal.	.29 - .35
Hexalin (see cyclohexanol).		
Hexaethyl tetraphosphate, cns., works.	lb.	1.25 - —
dms., c.l., works	lb.	.80 - —
l.c.l., works	lb.	.90 - 1.00
Hexamethylenetetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C.	lb.	.24 - —
smaller lots, same basis.	lb.	.25 - —
USP, dms., 500 lbs. or more, same basis.	lb.	.35 - —
smaller lots, same basis.	lb.	.36 - —
Hexane, 60°-70° C., industrial grades, dms., c.l., Group 3.	gal.	.14¼- .17
l.c.l., Group 3	gal.	.19 - .35
tanks, Group 3	gal.	.10¾- .11¼
laboratory grade, dms., c.l., Group 3.	gal.	.16 - —
l.c.l., Group 3	gal.	.29 - .55
Hexanol, normal, dms., l.c.l., works.	lb.	.25 - —
Homatropine hydrobromide, bots.	oz.	15.00 -25.00
Hydrochloride, bots.	oz.	20.00 -22.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago.	unit-ton.	7.00 - —
Hops, NF, bls.	lb.	.55 - 1.30
Horehound, bls.	lb.	.12½- .13
Hydrangea, root, bls.	lb.	.22 - .25
Hydrastine, alkaloid, bots.	oz.	20.00 -22.00
Sulphate, bots.	oz.	29.00 -32.00
Hydrastinine, 10-gr. bots.	bot.	1.95 - —
Hydrastis (see Goldenseal).		
Hydrofuramide, dms., fib. cns., works.	lb.	.30 - .40
Hydrogen peroxide, USP, bbls.	lb.	.03¾- .04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal.	lb.	.15½- .18½
Hydroquinine bbls., dms.	lb.	.90 - .94
Hydroxycitronellal, cns.	lb.	16.50 -21.60
dms., extra, ret'able, dlvd.	lb.	16.00 - —
Hyoscine hydrobromide, bots.	oz.	39.00 -45.00
Hyoscyamine, bots.	oz.	18.00 -20.00
Hydrobromide, bots.	oz.	18.00 -19.50
Sulphate, bots.	oz.	14.00 -16.50
Hypernic extract, cryst., No. 1, bbls., l.c.l.	lb.	.51 - —
No. 2, bbls., l.c.l.	lb.	.43 - —
liquid, No. 1, bbls., l.c.l.	lb.	.28 - —
No. 2, bbls., l.c.l.	lb.	.23 - —
solid, No. 1., bxs., l.c.l.	lb.	.40 - —
Hysop herb, bgs.	lb.	.55 - .60
leaves, bgs.	lb.	.70 - .97

I

Iceland moss, bgs.	lb.	.50 - .52
Ichthammol, NF, bots.	lb.	2.45 - —
Indian red (see Red, Indian).		
Indigo, nat., chests.	lb.	2.14 - 2.30
synth., paste, bots.	lb.	.16½- .19
powd., bbls.	lb.	.74½- .85
Indol, CP, bots.	lb.	19.00 -22.00
Inositol, tins, works.	lb.	5.00 - —
Insect flowers (see Pyrethrum).		
Iodine, crude, 150-lb. kgs., ex whse., Staten Island.	lb.	1.729 - —
resubl., 5-lb. bots., jars	lb.	2.10 - 2.20
Iodoform, 100-lb. dms., kgs.	lb.	4.45 - —
Ionone, ketone, bot.	lb.	6.00 -14.00
Methyl, bot.	lb.	6.25 -12.00
Ipecac root, bgs.	lb.	5.25 - 5.50
powd., bgs.	lb.	5.50 - 5.75
Irish moss, bleached, prime.	lb.	.25 - .30
Iron acetate, liquor, bbls., c.l., dlvd.	lb.	.17 - —
l.c.l., dlvd.	lb.	.18 - —
solut., USP IX, 100-lb. cbys.	lb.	.17 - —
50-lb. djns	lb.	.18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works.	100 lbs.	4.90 - 5.25
l.c.l., works.	100 lbs.	6.50 - 6.85
cryst., tech., bbls., works, frt. alld.	100 lbs.	4.00 - 6.00
USP X, lump, bbls.	lb.	.07 - .08½
solut., 42 Be, cbys., works, frt. alld. or equald.	lb.	.05½- .06
djns., same basis.	lb.	.10 - —
Citrate, gran., dms.	lb.	.72 - .74
Glycerophosphate, N.F., powd.	lb.	4.35 - —
Iron, hypophosphite, bbls., dms.	lb.	1.50 - 1.52
Iodide, bots.	lb.	3.48 - 3.68
Naphthenate, 6% Fe, 50-gal. dms.	lb.	.19½- —
Nitrate, red, tech., dms.	lb.	.03½- .04
Oxalate, gran., dms.	lb.	.33 - .35
powd., cns.	lb.	.52 - —
kgs.	lb.	.47 - .49
Phosphate, soluble, NF, gran., cs.	lb.	.54 - .57
Pyrophosphate, NF, gran., soluble, dms.	lb.	.59 - .62
Reduced, 90%, kgs.	lb.	.65 - .75
Resinate, 7.4%, Fe, 100-lb. dms.	lb.	.22 - —
Stearate, dms., c.l.	lb.	.53 - —
ton lots	lb.	.54 - —
less ton lots	lb.	.55 - —
Sulphate (ferric), anhyd., bgs., c.l., works.	ton.	85.00 - —
l.c.l., works	ton.	40.00 - —
partially hydrated, bgs., c.l., works.	ton.	26.50 - —
(ferrous) tech. (see Copperas).		
USP, cryst., bbls., dms.	lb.	.06 - .08
Iron - ammonia citrate, brown, green, gran., dms.	lb.	.40 - .43
Oxalate, bbls.	lb.	.23½- —
dms., kgs.	lb.	.25½- .26½
Iron-soda oxalate, bbls., dms.	lb.	.25½- .26½
Isobornyl acetate, cns., works.	lb.	.80 - .95
Isobornyl thiocyanoacetate, dms., c.l., works.	gal.	4.35 - —
l.c.l., works	gal.	4.45 - 4.55
tanks, works	gal.	4.23 - —
Isobutyl acetate, cns.	lb.	1.05 - 1.10
Propionate, cns.	lb.	No prices.
Isobutyraldehyde, dms., works.	lb.	.32 - —
10-gallon lots, works.	lb.	.36 - —
Isoeugenol, extra, cns.	lb.	3.45 - 4.00
Isopentane, dms., works.	lb.	.45 - .55
Isophorone, dms., c.l., works.	lb.	.21 - —
l.c.l., works	lb.	.22 - —
tanks, works	lb.	.20 - —
Isopropanol (see Alcohol, Isopropyl).		
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld.	lb.	.1160- .1210
l.c.l., E. of Rockies, same basis.	lb.	.1210- .1260
tanks, E. of Rockies, same basis.	lb.	.1100- .1160
Alcohol (see Alcohol, Isopropyl).		
Ether, dms., c.l., dlvd.	lb.	.06 - —
l.c.l.	lb.	.06½- —
tanks, dlvd.	lb.	.04½- —
Isopropylamine, dms., works.	lb.	.25 - —

J

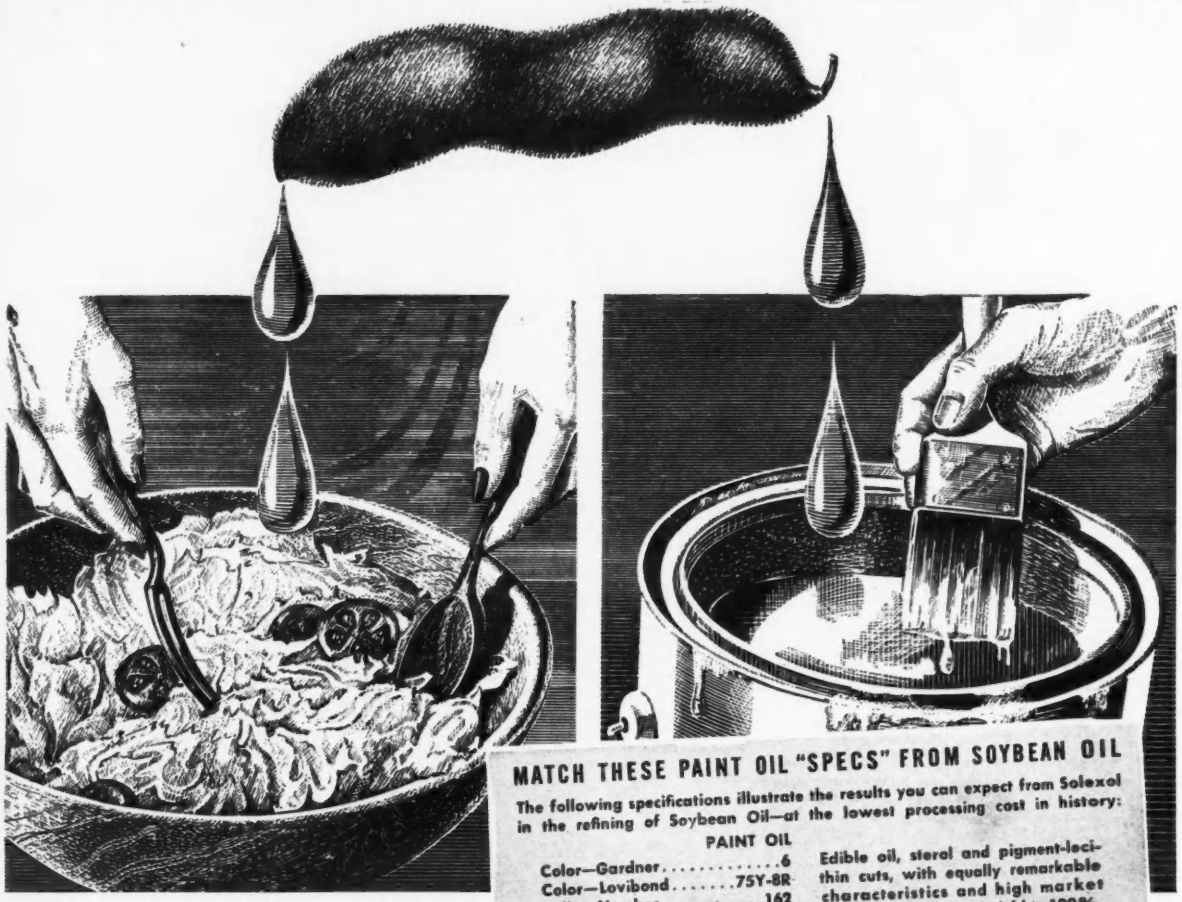
Jaborandi leaves, bls.	lb.	.25 - .28
Jalap root, NF, bls.	lb.	.45 - .50
powd., bbls., bxs.	lb.	.55 - .60
Resin, lump, cns.	lb.	5.85 - —
powd., bxs.	lb.	5.90 - —
Juniper berries, bgs.	lb.	.12 - .20
Juniper tar, USP, dms.	lb.	.68 - 1.00

K

Kamala, powd., cns.	lb.	.46 - .48
Kaolin (see China clay).		
Kava kava root, bls.	lb.	.35 - .40
Kerosene, at refinery; Ark., 42-44 w.w., tanks.	gal.	.06625- .07125
Bayonne, 41-43, w.w., tanks,	gal.	.061 - —
California, 40-43, w.w., tanks,	gal.	.072 - .1155
Gulf ports, 41-43, w.w., tanks,	gal.	.0600- .0650
Okla.-Tex., 41-43, w.w., tanks,	gal.	.06875- .07125
Penn., 45 w.w., tanks.	gal.	.0775- .0795
47 w.w., tanks.	gal.	.0825- .083
Kola nuts, bgs.	lb.	.08 - .09
Kyanite, imp., low iron content, 10-mesh, whse.	ton.	85.00 -95.00
calcined, grain, 10-mesh, whse.	ton.	95.00 -105.00

L

Ladyslipper root, bls.	lb.	1.35 - 1.40
Lanolin (see Adeps lanae).		
Lard, cash, Chicago, tcs.	lb.	.20 - .20¼
Larkspur seed, bgs.	lb.	.65 - .70
Laurel berries, bls.	lb.	.25 - .26
Leaves, Algerian, bls.	lb.	.13 - .13½
Cyprus, bls.	lb.	.28 Nom.
Greek, bls.	lb.	.12 - .12½
Italian, bls.	lb.	.13 - .13½
Portuguese, choice, bls.	lb.	.11 - .11½
Turkish, bls.	lb.	.12 - .12½
Lavender flowers, medium, bls.	lb.	.60 - .65
ordinary, bls.	lb.	.35 - .45
select, bls.	lb.	.65 - .70
Lead, acetate, white, broken, bbls.	lb.	.18½- —
cryst., bbls.	lb.	.19½- —
gran., powd., bbls.	lb.	.19¼- —
Arsenate, basic powder, 3-lb. bgs. or larger, c.l.	lb.	.21½- —
l.c.l.	lb.	.22½- .23½
1-lb. bgs, c.l.	lb.	.20½- —
l.c.l.	lb.	.30½- .31¼
Lead arsenate prices are works or whse. basis, frt. alld. on 96 lbs. or more to dest. East.		
Blue, basic sulphate, bbls., c.l., 20-ton lots, f.o.b. ship't pt, frt. alld.	lb.	.15½- —
l.c.l., works.	lb.	.15½- —
Carbonate (see Lead, white).		
Chloride, fib. dms.	lb.	.49 - —
Iodide, NF V, jars.	lb.	2.94 - —
Linoleate, solid, 13%, bbls.	lb.	.41¾- —
Metal (see Protective Coatings Materials market).		
Metallic paste, dms., works.	lb.	No stocks
Naphthenate, 21% Pb, liquid, dms.	lb.	.20½- —
30% Pb, liquid, dms.	lb.	.24½- —
37% Pb, solid dms.	lb.	.27½- —
Nitrate, bbls., l.c.	lb.	.17½- —
l.c.l.	lb.	.18 - —
Oleate, bbls.	lb.	.17¼- —
Peroxide, powd., tech., bbls.,	lb.	.23 - .24
Red, 95% Pb_3O_4 or less, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld.	lb.	.1780- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld.	lb.	.1800- —
smaller lots, f.o.b. ship't point, frt. alld.	lb.	.1850- —
in oil, kgs.	lb.	.2675- —
97% Pb_3O_4, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld.	lb.	.1785- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld.	lb.	.1825- —
smaller lots, f.o.b. ship't point, frt. alld.	lb.	.1875- —
99% Pb_3O_4, bbls., c.l. (20 tons), f.o.b. ship't point frt. alld.	lb.	.1810- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld.	lb.	.1850- —
smaller lots, f.o.b ship't point, frt. alld.	lb.	.1900- —
Resinate, precip., 23.8% Pb., dms.	lb.	.25 - —
Silicate, bgs.	lb.	.17 - .17½
Soyate, 20.15% Pb., dms.	lb.	.22¼- —



MATCH THESE PAINT OIL "SPECS" FROM SOYBEAN OIL

The following specifications illustrate the results you can expect from Solexol in the refining of Soybean Oil—at the lowest processing cost in history:

PAINT OIL	
Color—Gardner	6
Color—Lovibond	75Y-8R
Iodine Number	162
Oil Yield—Wt. %	30.0

Edible oil, sterol and pigment-lecithin cuts, with equally remarkable characteristics and high market value, bring the total yield to 100%.

MAKING A MIRACLE WORK BETTER

A few years ago soybean oil promised to be the miracle solution to a world-wide shortage of vegetable oils.

But somehow the miracle didn't quite materialize.

What happened is that conventional refining methods were unable to cope with the complex structure of soybean oil – unable to separate the various substances in a way that met exacting specifications for different products.

Today, however the story is different – thanks to the revolutionary new Solexol Process which separates various components in all glyceride oils *according to molecular weight and structure* – without chemical or thermal side reactions.

From soybean oil Solexol produces edible products with flavor stability never before attained commercially. Other fractions extracted from the same soybean oil produce paint oils superior to linseed oil in quick-drying properties – and still other fractions, such as lecithin, are valuable in the manufacture of pharmaceuticals and cosmetics.

What Solexol has achieved with soybean oil is typical of the vast new opportunities this process opens in the refining of all vegetable, animal and marine oils – to more exacting specifications and at less cost than ever before. For full information write: Glyceride Processes Division, The M.W. Kellogg Co., 225 Broadway, New York 7, N. Y.

SOLEXOL

Decolorizes, separates, extracts, concentrates and deodorizes;

VEGETABLE OILS
Soybean, Cottonseed, Tall, Linseed, Peanut, Other similar types

ANIMAL PRODUCTS
Tallows, Waxes, Greases

MARINE OILS
Fish body oils and liver oils having widely different physical, chemical and vitamin-potency characteristics.

FATTY ACIDS From all sources

Licensed jointly by The M. W. Kellogg Co. and The Chemical Foundation, Inc.

GLYCERIDE PROCESSES DIVISION

THE M. W. KELLOGG COMPANY

Engineers and Economists to International Industry

New York, N. Y. Houston, Tex. Jersey City, N. J. Toronto, Can. Los Angeles, Calif. London, Eng. Tulsa, Okla. Paris, Fr.

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Lead, stearate, bbls., c.l.....lb. .55 - —
ton lots.....lb. .56 - —
less ton lots.....lb. .57 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, 10% Pb., liquid, dms., lb. No prices
30% Pb., solid, dms.....lb. No prices
White, basic carbonate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15¾- —
l.c.l., works.....lb. .16 - —
basic sulphate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15¼- —
l.c.l., works.....lb. .15½- —
in oil, consumers, kgs....lb. .27 - —
painters, kgs.....lb. .25¾- —
Lecithin, edible, dms., c.l....lb. .36 - —
l.c.l. .....lb. .38½- .58½
tech., dms., c.l. .....lb. .36 - —
l.c.l. .....lb. .38½- .58½
Lemon peel, bls. .....lb. .35 - .40
Licorice extract, mass, cns....lb. .40 - .42
powd., bbls.....lb. .60 - .62
Root, natural, bls.....lb. .09½- .10
powd., bbls. .....lb. .17 - .18
5-lb. bundles, cs.....lb. .60 - .65
Lignin extract, tanning grade, bgs., c.l., works..lb. .04¾- —
Lime, agricultural, bulk, works. tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, Adams, Mass..ton. 9.00 - —
Annville, Pa.....ton. 8.50 - —
Bellefonte, Pa.....ton. 8.50 - —
Berkeley, W. Va....ton. 8.50 - —
Buffalo, N. Y.....ton.10.25 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa...ton. 9.00 - —
Crab Orchard, Tenn.ton. 7.90 - —
Eagle Mountain, Va.ton. 8.50 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio....ton. 7.50 - —
Hannibal, Mo.....ton. 7.50 - —
Keystone, Ala.....ton. 7.90 - —
Knoxville, Tenn.....ton. 7.90 - —
Limedale, Ark.....ton. 8.00 - —
Longview, Ala.....ton. 7.90 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 8.50 - —
Martinsburg, W. Va.ton. 8.50 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 7.50 - —
Newala, Ala.....ton. 7.90 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland, Maine....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Tenn.....ton. 8.39 - —
Sherwood, Wisc.....ton. 8.50 - —
Springfield, Mo.....ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
Hydrated, paper bgs, Adams, Mass..ton.11.25 - —
Annville, Pa.....ton.11.00 - —
Bellefonte, Pa.....ton.11.00 - —
Berkeley, W. Va....ton.10.00 - —
Buffalo, N. Y.....ton.11.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa...ton.11.00 - —
Crab Orchard, Tenn..ton.10.65 - —
Eagle Mountain, Va..ton.10.00 - —
Farnams, Mass.....ton.11.00 - —
Gibsonburg, Ohio....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala.....ton.11.65 - —
Knoxville, Tenn.....ton.10.65 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton.10.00 - —
Longview, Ala.....ton.11.65 - —
Manistique, Mich....ton. 9.50 - —
Marblehead, Ohio....ton.10.50 - —
Martinsburg, W. Va.ton. 8.50 - —
Mitchell, Ind.....ton.10.00 - —
Newala, Ala.....ton.11.65 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich...ton. 9.00 - —
Rapid City, S. Dak..ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.12.14 - —
Sherwood, Wis.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.11.00 - —
Spray, Adams, Mass., paper.ton.11.00 - —
Annville, Pa.....ton.11.00 - —
Bellefonte, Pa.....ton.11.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.10.00 - —
Marblehead, Ohio....ton.10.00 - —
Rockland, Maine....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville Ohio.....ton.10.00 - —
York Pa.....ton.11.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen* 20.5% N. (see Ammonia nitrate-lime-stone).
Limestone, ground, bulk, works.. ton. 1.40 - —
Linalool, ex bois de rose.....lb. 7.75 - 8.15
ex lignaloe wood.....lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose bots..lb. 6.40 - 7.50
ex lignaloe wood, bots.....lb. 8.25 - 8.40
ex petitgrain, bots.....lb. 5.10 - 6.35
Linden flowers with leaves, bls. lb. .40 - .42
without leaves, bls.....lb. .54 - .58
Linseed meal, 34%, bulk, mills. ton.68.00 -69.00
Litharge, com'l, powd., bbls., c.l., f.o.b. ship't point, frt. alld..lb. .1600- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld..lb. .17 - —
smaller lots, f.o.b. ship't point, frt. alld..lb. .17½- —
Lithium bromide, bbls., 100-lb. lots, works, frt. equald.ton. 1.90 - —
Carbonate, NF, bbls., kgs...lb. 1.15 - —
Chloride, jars .....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs....lb. 1.30 - 1.45
Fluoride, bbls. .....lb. 1.90 - —
Hydroxide, jars .....lb. 1.15 - 1.25
Lithopone, ordinary, bgs., c.l., (20 tons)..lb. .05½- —
l.c.l. .....lb. .05¾- —
bbls., c.l. .....lb. .05¾- —
l.c.l. .....lb. .06 - —
Titanated (high-strength), bgs., lb. .07½- —
smaller lots .....lb. .07½- —
bbls., c.l. .....lb. .07½- —
smaller lots.....lb. .07¾- —
Lithopone, c.l., divd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst. ¼c. higher.
Liverwort leaves, bls.....lb. .75 - .90
Lobelia herb, bls. .....lb. .80 - .85
Lobeline sulphate, bots., wks.oz.25.50 -38.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .37 - —
No. 2, bbls., l.c.l.....lb. .35 - —
liquid, No. 1, bbls., c.l....lb. .18 - —
No. 2, bbls., l.c.l.....lb. .17 - —
No. 3, bbls., l.c.l.....lb. .16½- —
No. 4, bbls., l.c.l.....lb. .16 - —
solid, No. 1, bxs., l.c.l.....lb. .32 - —
No. 2, bxs., l.c.l.....lb. .30 - —
No. 4, bxs., l.c.l.....lb. .27½- —
No. 5, bxs., l.c.l.....lb. .25½- —
No. 6, bxs., l.c.l.....lb. .43½- .48½
Lovage root, imported, bls....lb. 1.20 - 1.25
Lupulin, NF, tin.....lb.10.00 -11.00
Lycopodium, USP, cs.....lb. 2.50 - 3.00

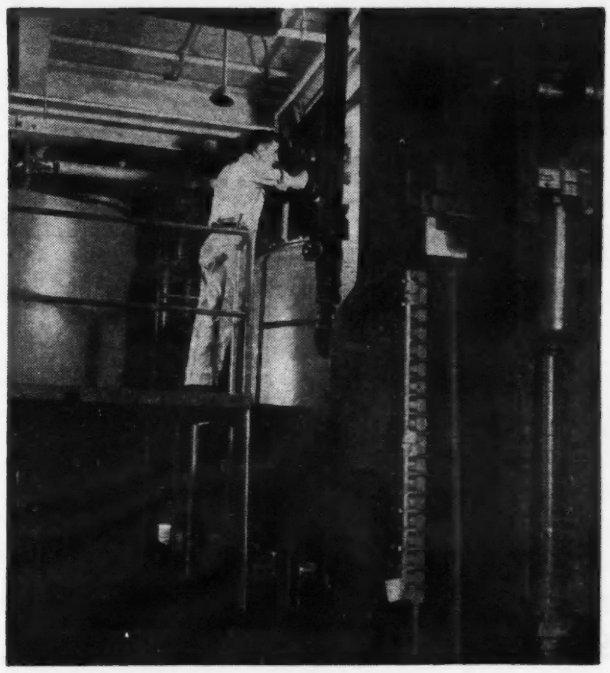
M

Mace, Banda, cs.....lb. No stocks.
East Indian, bgs., futures...lb. 1.60 - 1.65
West Indian, bgs., futures..lb. 1.45 - 1.50
Broken, bgs., futures.....lb. 1.30 - 1.40
Madder, Dutch, bgs.....lb. .34 - .35
Magnesia arsenate, bgs., cans, works..lb. .20 - .30
Calcined, tech., bbls., works, lb. .29 - —
USP, works.....lb. .31 - .33
Carbonate, tech., bgs., c.l., frt. equald..lb. .07½- —
l.c.l., frt. alld.....lb. .08¼- —
bbls., c.l., frt. equald....lb. .08½- —
l.c.l., frt. alld.....lb. .09½- —
kgs., c.l., frt. equald....lb. .09¾- —
l.c.l., frt. alld.....lb. .10¾- —
USP, bgs., c.l., frt. equald.lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald....lb. .09½- —
l.c.l., frt. alld.....lb. .10½- —
kgs., c.l., frt. equald....lb. .10¾- —
l.c.l., frt. alld.....lb. .11¾- —

Magnesia carbonate is quoted frt. alld. to N. J., except to Atlanta, Burlington, Cape May, Cumberland, Gloustershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald. to N.Y.C. on all other destinations.

Chloride, anhyd., bbls., divd.lb. .12¾- —
flake, bbls., c.l., works..ton.37.00 - —
l.c.l., works.....ton.44.00 -46.00
Fluoride, bbls. .....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns. .....lb. 1.45 - —
Laurate, bbls. .....lb. .33 - .38
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works.lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls. lb. .62 - .67
Magnesia silicate (see Talc).
Silicofluoride, bbls.....lb. .14 - .16
Stearate, ctns., 2,000 lbs. to c.l. lb. .51 - —
smaller lots.....lb. .52 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts..lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, calcined, powd., bgs., c.l., mines, Calif..ton.58.75 - —
dead-burnt, bulk, c.l., Chewelah, Wash..ton.23.00 -32.00
Maleic anhydride, dms., c.l....lb. .25 - —
l.c.l. .....lb. .26 - —
Malva flowers, black, bls.....lb. No stocks
blue, bls. .....lb. 1.45 - 1.50
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .40 - .45
Manganese acetate, dms.....lb. .25½- —
Arsenate, bgs. .....lb. .12 - .12¼
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls. .....lb. .19 - —
Chloride, anhyd., bbls., wks..lb. .14 - .16
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
85-90%, bbls., c.l., works. ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
84-87%, burlap bgs., c.l., works..ton.71.75 - —
l.c.l., works.....ton.74.75 -79.79
paper bgs., c.l., works. ton.70.00 - —
l.c.l., works.....ton.73.00 - —
Glycerophosphate, fib. dms..lb. 4.25 - —
Hydrate, bbls., divd.....lb. .26 - —
Iodide, jars.....lb. 5.55 - —
Linoleate, liquid, 4%, Mn, dms. lb. .42¾- —
solid, precip., 8.2%, bbls..lb. .44¾- —
Manganese naphthenate, 6% Mn, liquid, dms..lb. .21 - —
10% Mn, solid, dms.....lb. .33¼- —
Resinate, fused, 3½% Mn, bbls. lb. .09 - .10¼
precip., dms. .....lb. .20 - —
Soyate, 8.2% Mn, dms.....lb. .22 - —
Sulphate, anhyd., dms., works. lb. No stocks.
feed grade, 77-80%, bgs....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., divd. East..ton.56.00 - —
l.c.l., same basis, or Balto. or Cincinnati... ton.63.00 - —
industrial grade, 80%, bgs.lb. .05 - .05¾
75%, bgs., c.l., divd. East. ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, 4% Mn, liquid, dms.lb. No prices.
8% Mn, solid, dms.....lb. No prices.
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock, U. S. ports..ton.60.00 -62.00
Manna, flake, large, cs.....lb. 1.50 - 1.55
small, cs. .....lb. No stocks.
Mannitol, com'l, bbls., works.lb. .38 - .43
reagent, cs. or multiples, works..lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls. .....lb. .10 - .10½
futures, bls. .....lb. .09¾- .10¼
Matico leaves, bls.....lb. .15 - .15½
Menadione, USP, bots., works. gram. .10 - —
Menthol, natural, USP, Brazilian. cns..lb. 8.25 - 8.50
synthetic, tech., cns.....lb. No prices.
USP, laevo, cns.....lb. No prices.
racemic, cns. .....lb. 7.25 - 7.80
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercurial ointment, USP, mild, 10%, dms...lb. .70 - .72
strong, dms. .....lb. 1.68 - 1.70

IN NOPCO'S NEW VITAMIN A AND D CONCENTRATION PLANT — YOUR "A AND D" PROBLEMS ARE BEING SOLVED



Nopco's new Vitamin A and D Concentration Plant, at Harrison, N. J., is stainless steel, throughout. Completely enclosed system, capable of operation entirely under gas. Contains unique equipment, specially designed by experienced Nopco engineers, to produce fish liver oil concentrates of continuously improving quality.

ARE THESE YOUR VITAMIN A AND D PROBLEMS?

Blandness?—So-called "taste extinction" tests, involving dilution with bland vegetable oil to the point where flavor disappears, no longer give reproducible results on Nopco's Vitamin A Concentrate, since flavor is so slight in the undiluted product.

High Potency? Nopco Vitamin A Concentrates are 1,000,000 A/gram or higher. "Natural" D concentrates routinely available up to 350,000 D/gram. Irradiated Ergosterol available in potencies to 3,000,000 D/gram.

Unusual "A and D" Blends With such high potency concentrates available, Nopco can ship your "A and D" requirements already *blended*, in one product, at almost any practical A/D ratio you may need. Let Nopco perform this valuable, time-saving blending operation for you. Whatever your Vitamin A and D problem may be, try Nopco for a wholly satisfactory answer. Send for complete details to Special Markets Department, Nopco Chemical Company, Harrison, N. J.

Nopco's Complete "A and D line" includes

- Vitamin A—in fish liver oil blends or concentrates
- Vitamin D Concentrate from Fish Liver Oil
- Irradiated Ergosterol—potencies up to 3,000,000 U.S.P. units per gram
- Combinations of Vitamin A with "Natural" D or D_2.

NOPCO CHEMICAL COMPANY
Formerly National Oil Products Co.
HARRISON, NEW JERSEY
Boston • Cedartown, Ga. • Chicago • Richmond, Calif.

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Pioneer producers of *natural* Vitamin A and Vitamin D, Vitab Rice Bran Concentrate and Calcium Pantothenate.

NOPCO — EVOLVED THRU RESEARCH

Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms. .....lb. 2.33 - 2.85
Chloride (see Calomel).
Cyanide, crys., powd.....lb. 3.54 - 3.59
Iodide, red, NF, dms.....lb. 4.32 - —
yellow, NF, fib. dms....lb. 4.42 - —
Oxide, red, NF (see Red precipitate).
yellow, USP, fib. dms.....lb. 2.74 - 2.76
tech. (see Yellow, mercury oxide).
Mesityl oxide, dms., c.l., dlvd.lb. .13 - —
l.c.l., dlvd. .....lb. .13½- —
tanks, dlvd. .....lb. .11½- —
Metal leaf, composition, 5½x5½ in..pkg. .No stocks.
Gold X+, deep, 23, 3⅜x3⅜ in., pkg. No stocks.
Silver, 3⅜x3¾ in.....pkg. No stocks.
Metanitroparatoluidin, bbls....lb. 1.16 - 1.21
Metaphenylenediamine, kgs....lb. .72 - —
Metatolylenediamine, kgs....lb. .77 - —
Methanol, natural, Group A, all grades, dms., extra, c.l., E. of Miss. R..gal. .63 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .60 - —
Group B, all grades, dms. incl. c.l., frt. alld..gal. .67 - —
l.c.l., same basis....gal. .78 - —
tanks, same basis....gal. .60 - —

Prices on natural methanol W. of Miss. R., 3c. higher.

synthetic, dms., c.l., Zone 1, frt. alld..gal. .34½- —
2, frt. alld. or dlvd...gal. .37½- —
3, frt. alld.....gal. .41½- —
4, frt. alld.....gal. .41½- —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .37 - —
2, frt. alld.....gal. .44 - —
3, dlvd. S. P. and L. A. gal. .42 - —
4, frt. alld. or dlvd....gal. .52½- —

Methanol, synthetic, tanks, Zone 1, frt. alld..lb. .24 - —
2, frt. alld.....gal. .27 - —
3, frt. alld.....gal. .29 - —
4, frt. alld.....gal. .29 - —

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., dlvd..lb. .16 - —
10 dms.....lb. .16½- —
1-9 dms.....lb. .17 - —
hydrogenated, c.l., dlvd....lb. .17¼- —
10 dms., dlvd.....lb. .17¾- —
1-9 dms., dlvd.....lb. .18¼- —
Acetate, CP, 97-99%, dms., c.l., E. of Miss..lb. .10½- .12
W. of Miss.....lb. .11½- .12
l.c.l., E. of Miss.....lb. .11 - .14
W. of Miss.....lb. .12 - .13½
tanks, E. of Miss.....lb. .09½- —
W. of Miss.....lb. .10½- —
tech., dms., c.l., E. of Miss.lb. .07 - .09
W. of Miss.....lb. .08 - —
l.c.l., E. of Miss.....lb. .07½- .11
W. of Miss.....lb. .08½- .10½
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. .07 - —
Acetoacetate, dms., c.l., works, frt. alld..lb. .09½- —

Methyl acetone, natural, Group A, dms., extra, c.l., E. of Miss., frt. alld..gal. .66 - —
l.c.l., same basis....gal. .76 - —
tanks, same basis....gal. .60 - —

Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.

Group B, dms., incl., c.l., E. Miss., frt. alld..gal. .67 - —
l.c.l., same basis....gal. .78 - —
tanks, same basis....gal. .60 - —
synthetic, dms., c.l., works, frt. alld. E..lb. .49 - —
frt. alld. W.....lb. .51½- —
l.c.l., works, frt. alld. E. lb. .53 - —
frt. alld. W.....lb. .55½- —
tanks, works, frt. alld. E.lb. .42½- —
frt. alld. W.....lb. .44½- —

Methyl acetone, synth. East territory is all states East of and including Colo., Mont., N. Mex. and Wyo. West territory, all states West of Colo., Mont., N. Mex. and Wyo.

Alcohol (see Methanol).
Anthranilate, dms.....lb. 1.80 - 2.70
bots., cns.....lb. 2.20 - 2.60
Benzoate, cns.....lb. .45 - 1.20
Bromide, cns.....lb. .63 - .65
cyls.....lb. .55 - .70
Chloride, indust. grade, cyl., works..lb. .16 - —
tanks, multi-unit, works.lb. .14¾- —
single-unit, works.....lb. .14 - —
refrigeration grade, indust. consumers, refrigeration machinery mfgrs., cylinders, dlvd..lb. .33 - —
retail refrigeration consumers or service men, cylinders, dlvd..lb. .41 - —
Alcohol (see Methanol).

Methyl cinnamate, cns.....lb. 2.00 - 3.50
Formate, dms.....lb. .89 - —
Iodide, bots.....lb. 3.00 - 3.25
Lactate, dms., c.l., dlvd....lb. No stocks
Oleate, dms., c.l.....lb. No prices
Salicylate, dms., 500 lbs....lb. .40 - —
25-50 lbs.....lb. .45 - —
Methylamyl ketone, cns., dms., works..lb. No stocks
Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld..lb. .60 - —
smaller lots, frt. alld....lb. .65 - .70
standard vis. (15-1,500 cps), fib. ctns., 2,000 lbs. or more, frt. alld..lb. .53 - —
smaller lots, frt. alld....lb. .58 - .63
Methylcyclohexane, 98-100% dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%..... dms., works..lb. .23 - —
Methylcyclohexanone, 98-100%... dms., works..lb. No stocks
Methylene blue, USP, 100-lb. lots, kgs., frt. equald..lb. 2.20 - —
50-lb. lots kgs., same basis, lb. 2.30 - —
25-lb. lots, kgs., same basis, lb. 2.35 - —
Chloride, refrig., dms., dlvd. E..lb. .12 - .13
Methyleneanilin, dms., ton lots, min. frt. alld..lb. .36 - —
smaller lots, same basis....lb. .37 - —
Methylethyl ketone, dms., dlvd.lb. .10½- —
l.c.l., dlvd.....lb. .11 - —
tanks, dlvd.....lb. .09 - —
Methylhexyl ketone, dms., tech., works..lb. .60 - —
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Methylisobutyl ketone, dms., c.l., dlvd..lb. .14 - —
l.c.l., dlvd.....lb. .14½- —
tanks, dlvd.....lb. .12½- —
Methylnaphthyl ketone, cns....lb. 3.00 - 3.75
Methylpentanediol, dms., dlvd., works..lb. .24½- —
l.c.l., dlvd.....lb. .25½- —
tanks, dlvd.....lb. .23 - —
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.lb. .03½- —
roofing, 20 to 80 mesh, works, lb. .03¼- —
graphite, bulk, Pa., mines.ton.80.00 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E..lb. .05¾- —
extra fine, bgs., c.l., works, frt. alld. E..lb. .05 - —
l.c.l., ex whse. or frt. alld. E..lb. .05½- —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
rubber, bgs., c.l., works, frt. alld. E..lb. .06¼- —
l.c.l., ex whse. or frt. alld. E..lb. .06¾- —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .06¾- —
l.c.l., ex whse. or frt. alld. E..lb. .07¼- —
mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, ¾c. higher.
Milk powder, skimmed, roller, bulk, c.l..lb. .11¼- —
spray, bulk, c.l.....lb. .11¾- —
whole, roller, bbls., c.l....lb. No stocks.
spray, bbls., c.l.....lb. .36 - —
Milk sugar, bbls., c.l., works.lb. .26 - —
l.c.l., works .....lb. .26¾- .27¼
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks..gal. .20 - .28
Molybdate orange (see Orange, molybdate).
Molybdenum metal, kgs., 99% Mo. powd..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .95 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monoamylamine, dms., c.l., works, basis 100%..lb. .61 - —
l.c.l., works, basis 100%...lb. .64 - —
Monochlorobenzene, dms., c.l., works, frt. equalized with comp. points..lb. .06 - .07½
l.c.l., works .....lb. .06½- .08½
tanks, works, frt. equalized with comp. points..lb. .05½- .06
smaller containers, works.. lb. .09 - .10
Monoethanolamine, dms., c.l., frt. alld. E..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Monoethylamine, dms., c.l., wks. basis 100%..lb. .17 - —
l.c.l., works, basis 100%..lb. .18 - —
tanks, basis 100%, works..lb. .15 - —
Monomethylamine, anhydrous, cyl., works, frt. alld. E. of Miss. basis 100%..lb. .32½- —
solution, dms., works, frt. alld. E. of Miss., basis 100%, lb. .37 - .43½
tanks, same basis.....lb. .32 - —
Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90
Monosodium phosphate (see Soda phosphate, monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs. .....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Hydrobromide, 5 ozs.....oz. 8.95 - —
cns., 25 ozs.....oz. 8.70 - —
Hydrochloride, bots., 5 ozs..oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Morpholine, dms., l.c.l., works. lb. .67 - —
smaller containers, works...lb. .75 - —
Mullein leaves, cns.....lb. .12 - .13
Musk, nat., Tonquin grains, bots. oz.55.00 -60.00
synthetic, ambrette, cns.....14.25 - —
ketone, cns., 100 lbs. or more. lb. 4.15 - 5.30
25 lbs.....lb. 4.25 - 5.40
5 lbs.....lb. 4.40 - 5.50
xylol, cns. .....lb. 1.60 - 2.00
25 lbs. .....lb. 1.70 - 2.60
5 lbs. .....lb. 1.85 - 2.90
Muskroot, bls. .....lb. No prices.
Mustard seed, Calif., brown, bgs. lb. .17 - .17½
yellow, bgs. .....lb. .21 Nom.
Danish, yellow, bgs.....lb. .19 - .19½
Dutch, yellow, bgs.....lb. .22½- .23
Montana, brown, bgs.....lb. .16 - .16½
yellow, bgs. .....lb. .19 - .19½
futures, source .....lb. .16 - .16½
oriental, bgs. .....lb. .09¼- .09¾
futures, f.o.b. source...lb. .07¼- .07¾
Washington, yellow, bgs....lb. No prices.
Myrobalans, whole, J1, U. S., ports, ex dock..ton.45.00 -46.00
J2, same basis.....ton.42.00 - —

SHELL CHEMICAL markets these

ORGANIC CHEMICALS

ACETONE	$CH_3.CO.CH_3$
ALLYL ALCOHOL	$CH_2{:}CH.CH_2OH$
ALLYL CHLORIDE	$CH_2{:}CH.CH_2Cl$
CYCLOHEXANE	C_6H_{12}
DIACETONE ALCOHOL	$CH_3.CO.CH_2.COH(CH_3)_2$
DIISOBUTYLENE	$CH_2{:}C(CH_3).CH_2.C(CH_3)_3$ & $(CH_3)_2.C{:}CH.C(CH_3)_3$
EPICHLOROHYDRIN	$CH_2Cl.CH.CH_2$ (O)
GLYCEROL DICHLOROHYDRIN	$CH_2Cl.CHCl.CH_2OH$ & $CH_2Cl.CHOH.CH_2Cl$
ISOPROPYL ALCOHOL, Refined 99%	$CH_3CHOH.CH_3$
METHYL ETHYL KETONE	$CH_3.CO.C_2H_5$
MESITYL OXIDE	$CH_3.CO.CH{:}C(CH_3)_2$
METHYL ISOBUTYL CARBINOL	$(CH_3)_2CH.CH_2.CH(OH)CH_3$
METHYL ISOBUTYL KETONE	$CH_3.CO.CH_2.CH(CH_3)_2$
SECONDARY BUTYL ALCOHOL	$CH_3.CHOH.C_2H_5$
TERTIARY BUTYL ALCOHOL	$(CH_3)_3.COH$

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N

Naphtha painters (see Petroleum naphtha, V. M. & P.).
Solvents (see S).

Naphthalene, dom., crude, 74° bgs., c.l., frt. equald..lb. — - —
bbls., c.l., same basis..lb. — - —
tanks, same basis.....lb. .035 - .0475
78°, bgs., c.l., same basis.lb. — - —
bbls., c.l., same basis..lb. .0410- —
l.c.l., same basis.....lb. .0435- —
tanks, same basis.....lb. .0376- .05
refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works..lb. .09½- —
50-lb. cs., same basis....lb. .09¾- —
1-lb. pkgs., same basis..lb. .11 - —

Neocinchophen, USP, dms., works. lb. 7.00 - 7.10

Nepheline syenite, glass grade, 24 mesh, bulk, Rochester, N. Y..ton.13.75 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.17.25 - —

Nepheline syenite in bgs. $2 per ton higher than bulk.

Nerolin, crys., cns.....lb. 1.70 - 2.00

Niacin (see Acid, nicotinic).

Nickel, carbonate, bbls.....lb. .39 - —
Chloride, bbls.....lb. .20 - —
Cyanide, bots., dms.....lb. No stocks
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .14 - .14½

Nicotinamide, USP, dms., works. kilo.10.50 -10.80

Nicotine sulphate, 40%, dms., 50 lbs., tn dealers, frt. allowed over 50 lbs..lb. .988 - —
tins, 10 lbs.....lb. 1.105 - —

Nikethamide, bots., cbys.....lb. 6.50 - 7.50

Nitercake, bulk, works.....ton.20.00 -24.00

Nitrobenzene, dbl. dist., dms., c.l. lb. .08½- .08¾
l.c.l. .....lb. .09½- .10
tanks .....lb. .07½- .07¾

Nitrocellulose, alcohol-soluble, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .26 - —
5-6, 40-60 cps, same basis. lb. .27 - —
ester-soluble, 5-6, 15-16 cps. and higher, bbls., works, dry weight..lb. .20 - —

Nitrocellulose:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.

Nitroethane, dms., works.....lb. .25 - —

Nitrogen solut., tanks.....ton.107.00 - —

Nitrogen solution prices are frt. alld. with Hopewell, Va., and Military, Kan.

Nitrogenous process tankage, bulk, works..unit-ton. 4.00 - 4.50
Sewage sludge, bulk, works.... unit-ton.3.80+.40- —

Nitromethane, dms., c.l., works. lb. .25 - —

Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane 1, dms., works..lb. .25 - —
2, dms., works.....lb. .25 - —
Nutgalls, bgs.....lb. .44 - .50
Nutmegs, West Indian, bgs...lb. .77 - .78
futures, afloat .....lb. .74 - .75
East Indian, bgs., futures....lb. .65 - .66
Nux vomica, bls.....lb. .09½- .10
powder, bbls., bxs.....lb. .12 - .13

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks

Octane, 100° C-140° C, industrial grade, dms., c.l., G. 3..gal. .16 - —
l.c.l., G. 3.....gal. .29 - —
10 gals., G. 3.....gal. .55 - —
tanks, G. 3.....gal. .13 - —

Octanol (see Alcohol, ethylhexyl).

Oil, almond, artificial (see Benzaldehyde).

Bitter, F.P.A., bots.....lb. 4.75 - 5.00
NF, bots. .....lb. 4.90 - —
sweet, ex., dms., cns.....lb. .90 - 1.10
Angelica root, bots.....lb.110.00 -275.00
Seed, bots. .....lb.115.00 -265.00
Anilin (see A).
Anise, USP, Chinese, dms...lb. .90 - .95
Russian, cns. .....lb. 3.50 - 3.75
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns.. dms.....lb. 1.00 - 1.10
Babassu, tanks.....lb. No prices
Bay, NF, W. I., 50-55%, cns..lb. 1.35 - 2.00
Puerto Rican, 50-55%, cns..lb. 1.43 - 2.00
Bergamot, artif., cns.....lb. 2.25 - 5.50
natural, Italian, cns.....lb. 5.25 - 6.50
Birch (see Oil, sweet, birch).
Birchtar, crude, cns.....lb. No prices
rectified, cns.....lb. No stocks
Bois de rose, Brazil, cns....lb. 4.10 - 5.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.60 - 2.90
redistilled, USP IX, cns....lb. 2.60 - 3.20
Calamus, cns.....lb.20.00 -30.00
Camphor, white, nat., cns...lb. .55 - 1.25
synthetic, dms.....lb. .15 - .35
Cananga, native, cns.....lb. 8.00 -14.00
rectified cns.....lb.10.50 -17.00
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 5.50 - 6.75
Cardamom, bots. .....lb.22.00 -31.50
Cassia, USP, cns.....lb. 3.10 - 3.65
Castor, blown, ret. dms., c.l..lb. No prices
l.c.l. .....lb. No prices
cold-pressed, USP, ret. dms., c.l..lb. .33 - —
l.c.l. .....lb. .34 - —
tanks .....lb. .32 - —
dehydrated, bodied, dms., c.l. lb. .39½- —
l.c.l. .....lb. .40 - .40¼
tanks .....lb. .38½- —
unbodied, dms., c.l.....lb. .38¼- —
l.c.l. .....lb. .39 - —
unbodied, tanks .....lb. .37½- —
No. 3, tech., dms., c.l.....lb. .32¾- .34¼
l.c.l. .....lb. .33¾- .35¼
tanks .....lb. .31¾- .33¼
sulphonated, 50% (45% fat), dms..lb. .16½- .17
75% (62-64% fat), dms....lb. .24 - .25
Cedarleaf, USP, cns., dms...lb. 2.35 - 2.70
Cedarwood, cns. .....lb. .85 - 1.10
dms. .....lb. .84 - 1.00
Celeryseed, bots.....lb.15.00 -22.50
Chaulmoogra, NF, cns., dms. lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark oil, bots.....lb.82.50 -95.00
leaf, dms.....lb. 1.50 - 1.85
Citronella, Ceylon, cns.....lb. 1.75 - 2.00
Java, cns.....lb. 4.50 - 5.25
Clove, USP, cns.....lb. 1.30 - 1.60
Coconut, Ceylon type, tankcars. lb. .16½ Nom.
tankcars, Pac. Coast.....lb. .15½ Nom.
refined, Cochin type.....lb. .22 Nom.
deodorized, ret. dms., c.l., lb. .27 Nom.
Cod, Newfoundland, dms....gal. No prices
tanks .....gal. No prices
Codliver, USP, bbls., dms..gal. 2.60 - 3.70
Coriander, bots.....lb.17.50 -22.00

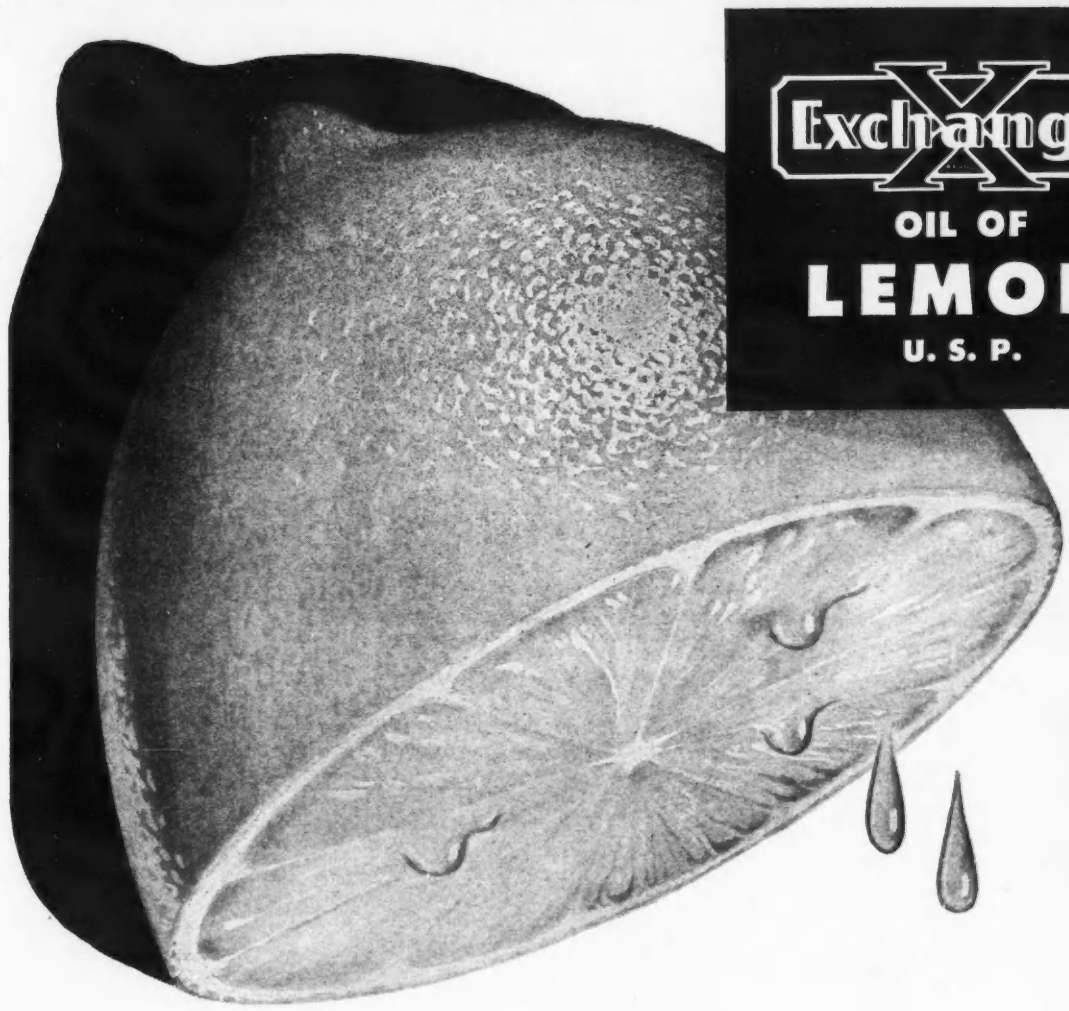
Oil, corn, crude, tanks, works.lb. .23½- —
refined, tanks, works.....lb. .28 Nom.
foots, acid, 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E..lb. .07 Nom.

Cottonseed, crude, tanks, works (see Cottonseed Oil market report).
deodorized, winterized, salad, dms., c.l..lb. .29 Nom.
l.c.l. .....lb. .29½- .30
tankcars .....lb. .28 Nom.
foots, acid 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E. lb. .07 Nom.

Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, cns. .....lb. 7.50 -13.00
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 6.25 -11.50
Cypress, bots. .....lb.15.00 Nom.
Degras (see D).
Dillseed, bots.....lb. 6.50 - 7.00
Dillweed, bots. .....lb. 4.46 - 5.25
Dip (see D).
Erigeron, cns. .....lb. 2.30 Nom.
Eucalyptus, USP, rect., 80-90%, cns..lb. 1.12 - 1.45
70-80%, cns. .....lb. 1.00 - 1.30
Fennel, sweet, cns.....lb. 3.75 - 4.55
Fir, Canada, cns.....lb. 2.50 - 2.80
Fishliver, 8,000-15,000 A units per gram, dms., per million units. .23 - .25
15,000-30,000 units, dms., per million units. .25 - .27
30,000-60,000 units, dms., per million units. .26½- .28
60,000-100,000 units, dms., per million units. .28 - .30
over 100,000 units, dms., per million units. .30 - .32
concentrates, 200,000 or more A units per gram, dms., per million units. .40 - .45

Oil, fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns.....lb.14.00 -21.00
Bourbon, cns. .....lb.12.50 -22.00
Russian, cns. .....lb. No stocks.
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb.10.00 -12.00
Grapefruit, Florida, cns....lb. 2.20 - 2.45
California, bots., cns.....lb. 1.90 - 2.25
Grease, common, No. 1, dms., Chicago..lb. .25 Nom.
prime, burning, dms., Chicago. lb. .26½ Nom.
Guaiacwood, cns.....lb. 2.90 - 3.80
Hemlock, cns.....lb. 2.35 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices.
Juniper berry, dom., bots....lb. 6.00 -13.50
imported, NF.....lb. 9.00 -12.00
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns....lb. .65 - 1.00
Lard oil (see Oil, grease).
Laurel, bots.....lb.20.00 - —
Lavandin, cns. .....lb. 2.70 - 6.00
Lavender flower, French, 38-42% ester..lb. 8.75 -10.50
30-32% ester.....lb. 5.50 - 8.00
Russian, cns.....lb.12.50 - —
Spike, Spanish, pure, cns..lb. 1.75 - 2.25
tech., cns. .....lb. 1.05 - 2.50
Lemon, USP, Calif., cns.....lb. 3.25 - 3.70
Messina, cns. .....lb. 3.40 - 5.75
Terpeneless, bots.....lb.40.00 -65.00
Lemongrass, cns., dms.....lb. 2.00 - 2.90
Lignaloe seed, Mexican, cns..lb. No stocks
Wood, Mexican, cns.....lb. 3.35 - 4.75
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns.lb. 4.50 - 7.20
West Indian, cns.....lb. 5.75 - 7.50
expressed, West Indian, cns.lb.13.00 -15.00
Linseed, raw, dms., c.l.....lb. .39 Nom.
l.c.l. .....lb. .4040- .4060
tankcars .....lb. .38 Nom.
tankwagon .....lb. .3820 Nom.
Boiled linseed oil, .007 higher than raw.

Oil, linseed replacement, dms., c.l..lb. .34 - —
l.c.l. .....lb. .3460- .3486
tankcars .....lb. .33 - —
Lubricating, at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¾-4 pour, tanks..gal. .07½- .11
red, 200-900 vis., 4-6½ pour, plus tanks..gal. .07¼- .11¼
Group 3, bright stock, 150-160 vis., 0.25 pour, tanks. gal. .23 - .26
neutral, 300 vis., No. 3, col., 0.10 pour, tanks.. gal. .18¼- .19
200-300 vis., No. 3, col., 15-25 pour, tanks.gal. .16 - .18
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .26 - .31
cylinder, oils, 600-680 flash, tanks..gal. .17 - .19
600-650 steam, refd., tanks..gal. .15½- .20
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .26 - .36
200 vis., 25 pour, tanks. gal. .29 - .38
Mace, dist., cns., dms.....lb. 8.50 -10.50
Mineral, white (see Oil, white).
Mandarin, Brazilian, cns.....lb. 5.25 -10.00
Menhaden, crude, tanks, Balto. lb. No prices
refined, alkali, dms., l.c.l..lb. .28½- —
kettle-bodied, dms., l.c.l..lb. .30 - —
light-pressed, dms., l.c.l..lb. .27 - —
tanks .....lb. .26 - —
Mustard, artif., USP, cns....lb. 1.45 - 1.65
Seed, exp., dms., c.l.....lb. .30 - —
Neatsfoot, 15°, ret. dms., wks. lb. .52 - —
20°, ret. dms., works.....lb. .50 - —
30°, ret. dms., works.....lb. .49 - —



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More than 80% of all the lemon oil used in the United States is Exchange Lemon Oil. This overwhelming endorsement by the trade is your assurance that Exchange Lemon Oil delivers *flavor . . . clarity* and *uniformity* not found in any other Lemon Oil.

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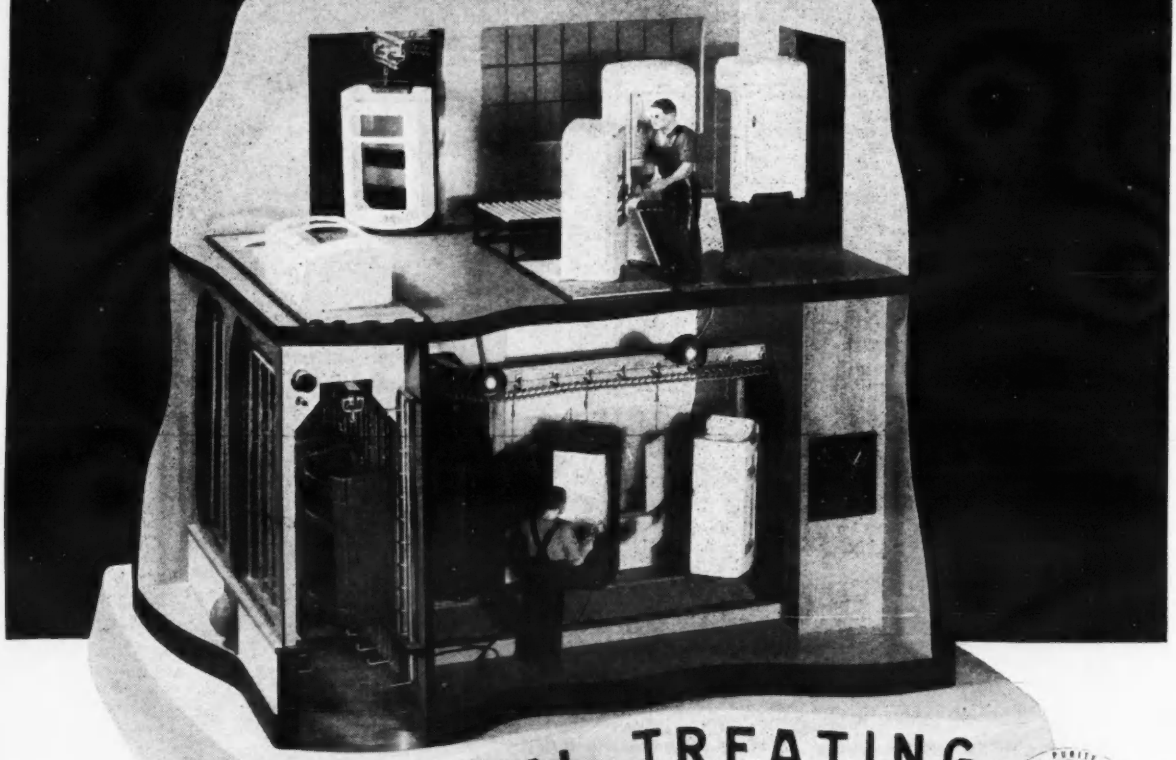
PRODUCTS DEPARTMENT, ONTARIO, CALIF.

Producing Plant:
EXCHANGE LEMON PRODUCTS CO., CORONA, CALIF.

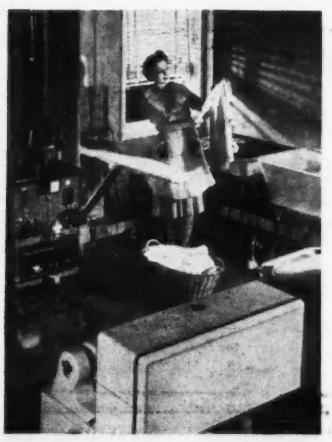
Oil, neroli, French, bots.....lb. 140.00 -390.00
Haitian, bots.....lb. 180.00 -200.00
Nutmeg, cns.....lb. 8.50 10.50
Ocotea cymbarum, dms.....lb. .90 - 1.00
Oiticica, liquid, tankcars....lb. .29 Nom.
dms., carlots.....lb. .30 Nom.
l.c.l.....lb. .30½- .31
Oleo, extra, tcs., Chicago....lb. .24 - —
Olibanum, bots.....lb. 5.00 - 6.05
extra, fine.....lb. 6.25 -10.50
Olive, denat., dms.....gal. No stocks
edible, Calif., 3⅝-½% f.f.a., dms., extra, works..gal. No prices
imported, dms.....gal. 6.75 - 7.00
foots dms., c.l.....lb. No prices
tankcars.....lb. No prices
sulphonated, 50% (40% fat), dms., c.l..lb. No stocks
l.c.l.....lb. No stocks
80% (68% fat), dms., c.l...lb. No stocks
l.c.l.....lb. No stocks
85% (68% fat), dms., c.l.lb. No stocks
l.c.l.....lb. No stocks
Orange, sweet, dist., cs.....lb. 1.25 - 1.75
expressed, USP, Brazilian, cns..lb. 1.60 - 2.00
Calif., cns.....lb. 1.90 - 2.10
Florida, cns., dms.....lb. 1.45 - 1.85
Messina, coppers.....lb. 4.50 - 4.75
West Indian, cns.....lb. 2.25 - 3.75
sesquiterpeneless, bots.....lb. 100.00 -135.00
Origanum, Spanish, cs.....lb. 2.40 - 3.15
Palm, Niger, dms.....lb. No prices
Palmarosa, cns.....lb. 8.00 - 9.50
Palmkernel, crude, bulk, c.i.f., N Y lb. No prices
Paraffin, 300° flash, 100-110 vis., tanks, G.3..gal. .05⅝- —
320° flash, 60-70 vis., tanks, G.3..gal. .05¼- —
350° flash, 70-80 @ 100 vis., 0/10 pour, G.3..gal. .08 - —
Oil, paraffin, 300° flash, 80-85 vis., 0/10 pour, bbls., extra, ind. ref'y..gal. .12 - —
100-110 vis., 0/10 pour, same basis..gal. .08½- —
10/25 pour, same basis.gal. .08¾- —
Patchouli, imported, cns....lb. 32.00 -38.00
Peanut, crude, tanks, works..lb. .25 Nom.
foots, acid, 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E.lb. .07 Nom.
refined, tanks, mills.....lb. .28 Nom.
Pennyroyal, dom., dms., cns..lb. 3.85 - 3.95
import, cns.....lb. 4.25 - 5.00
Peppermint, natural, dms...lb. 8.00 - 8.50
redist., USP, dms.....lb. 8.55 - 9.00
Perilla, crude, dms.....lb. No stocks
Petitgrain, Paraguay, cns...lb. 3.25 - 4.30
Pimento, berry, dms.....lb. 5.75 - 8.00
Leaf, cns.....lb. 2.25 - 5.75
Pine, destructive dist., dms., c.l., extra, wks., South.gal. .67 - —
l.c.l., same basis.....gal. .68 - —
tanks, wks., South.gal. .60 - —
steam-dist., dms., dlvd. E.gal. .88 - —
Pineneedle, cns.....lb. 3.65 - 3.85
Putty, petroleum, heavy, dms. gal. .18 - —
tankwagon.....gal. .13½- —
light, dms.....gal. .16½- —
tankwagon.....gal. .12½- —
Rapeseed, dms., c.l.....lb. No prices
Red, single dist., ret. dms..lb. .21¾- .22¾
tankcars.....lb. .20½- —
double dist., ret. dms.....lb. .24¼- .25¼
tankcars.....lb. .23 - —
Rose, natural, coppers.....oz. 31.25 -42.00
Rosemary, Spanish, tech., cns., dms..lb. 1.00 - 1.50
USP, cns., dms.....lb. 1.20 - 1.75
Rosin, 1st rectified, dms....gal. .66 - —
2d rectified, dms.....gal. .58 - —
34 rectified, dms.....gal. .72 - —
Oil, rue, bots.....lb. 4.90 - 5.50
Sage, Dalmatian, cns.....lb. 5.25 - 6.50
Spanish, cns.....lb. 2.25 - 3.50
Sandalwood, NF, Mysore, cns., case lots..lb. 16.00 -20.00
Sardine, crude, tanks, Pac. coast..lb. No prices
refined, alkali, dms., l.c.l..lb. .28½- —
kettle-bodied, dms., l.c.l..lb. .30 - —
light-pressed, dms., l.c...lb. .27 - —
tanks.....lb. .26 - —
Sassafras, artificial.....lb. .90 - 1.10
natural, Brazilian (see Oil, ocotea cymbarum), domestic, USP XII, cns., dms..lb. 1.95 - 2.30
Savin, cns.....lb. 5.75 -16.00
Savory, cns.....lb. 8.00 - —
Seal, No. 1, tanks, U.S. ports. lb. No prices
Sesame, tanks.....lb. No prices
Shingle stain, bbls., c.l., works. gal. .2185- —
l.c.l., works.....gal. .25 - .29
tanks, works.....gal. .15 - .16
Snakeroot, Canada, cns.....lb. 22.00 - —
Soybean, crude, tankcars, mills. lb. .22 - .23
refined, alkali, dms., c.l....lb. .2783- —
l.c.l.....lb. .2820- —
tankcars.....lb. .2683- —
clarified, dms., c.l.....lb. .2513- —
l.c.l.....lb. .2650- —
tankcars.....lb. .2513- —
winterized, ref., tankcars.lb. .27 Nom.
foots, acid, 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E.lb. .07 Nom.
Spearmint, dms.....lb. 13.25 -16.50
Sperm, bleached, 38°, dms....lb. No prices
natural, 45°, dms.....lb. No prices.
Spruce, cns., dms.....lb. 2.35 - 2.70
Oil, sunflower, imported, refined, tanks..lb. No prices.
semi-refined, tanks.....lb. No prices.
Sweet birch, North, cns....lb. 4.50 - 7.25
South, cns.....lb. 2.50 - 3.25
Tall, crude, tankcars, works, ton. 110.00 Nom.
Refined, dms., c.l., works..lb. .08½- .09¼
l.c.l., works.....lb. .09 - .10
tanks, works.....lb. .07½- .08¼
Tallow, acidless, dms., Chicago. lb. .23½- —
Tansy, cns.....lb. 12.00 -14.00
Tar, pine, crude, dms., extra, c.l., works, South..gal. .36½- —
l.c.l., works, South....gal. .38½- —
tanks, works, South....gal. .30½- —
rectified, USP, l.c.l., dms. extra, wks., South..gal. .57 - —
Tar acid (see T).
Thyme, red, NF, cns.....lb. 2.00 - 3.50
white, cns.....lb. 2.85 - 3.70
technical, cns.....lb. .75 - .80
Tung, dms., c.l.....lb. .30 - .31
l.c.l.....lb. .32 Nom.
tankcars.....lb. .28½ Nom.
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, USP, cns., dms..lb. .37 - .53
Vetiver, Bourbon, cns.....lb. 30.00 -38.00
Haitian.....lb. 29.50 -36.00
Whale, ref., natural, dms...lb. No stocks.
Winter bleached, dms.....lb. No stocks.
Wheat germ, dms.....gal. 10.00 -13.50
White, mineral, tech., f.o.b., N. Y., 50-60 vis., dms., incl., c.l..gal. .42 - —
l.c.l.....gal. .44 - .48
65-75 vis., dms., dms. incl., c.l..gal. .45 - —
l.c.l.....gal. .47 - .52
USP, 80/90 vis., dms., dms. incl., c.l..gal. .40 - —
l.c.l.....gal. .51 - .56
125/135 vis., dms., dms. incl., c.l..gal. .61 - —
l.c.l.....gal. .64 - .68
145/155 vis., dms., dms. incl., c.l..gal. .62 - —
l.c.l.....gal. .66 - .70
175/185 vis., dms., dms. incl., c.l..gal. .66 - —
l.c.l.....gal. .68 - .73
200/210 vis., dms., dms. incl., c.l..gal. .70 - —
l.c.l.....gal. .73 - .77
335/345 vis., dms. incl., c.l. gal. .78 - —
l.c.l.....gal. .80 - .86
55, 70 and 85 vis., non-ret. dms., San Francisco..gal. .45 - —
smaller lots, same basis. gal. .47 - .50
100 vis., non-ret. dms., 65 dms., San Francisco. gal. .56½- —
smaller lots, same basis. gal. .57½- .61½
145 vis., non-ret. dms., 65 dms., San Francisco.gal. .64 - —
smaller lots, same basis. gal. .66 - .68
180 vis., non-ret. dms., 65 dms., San Francisco.gal. .69½- —
smaller lots, same basis. gal. .71½- .74½
240 vis., non-ret. dms., 65 dms., San Francisco.gal. .81 - —
smaller lots, same basis. gal. .83 - .86
Wintergreen, natural, North, cns..lb. 5.50 -17.25
South, cns.....lb. 3.65 - 6.00
Synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns.....lb. 5.00 - 6.00
Wormwood, cns.....lb. 11.25 -11.50
Ylang-ylang, Bourbon, extra, bots..lb. 15.00 -24.00
first, bots.....lb. 12.50 -17.00
second, bots.....lb. 7.50 -14.00
third, bots.....lb. 3.00 - 9.00
Oleostearin, loose.....lb. .31 - —
Olivine, aggregate, c.l., mines.. ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works..ton. 10.00 - —
paper bgs., c.l., works..ton. 12.00 - —
lumps, paper bgs., c.l., works. ton. 7.00 - —
Opium, USP, cns.....lb. 21.30 -21.55
gran.....lb. 22.70 -29.95
powd.....lb. 22.70 -29.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies. lb. .65 - .95
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .24 - —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas, Tex., Ft. Worth, Tex., 1½c.; El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dinitroanilin toner.....lb. 1.15 - —
Molybdate, bbls.....lb. .38 - —
Orthonitroanilin toner, bbls., kgs., works..lb. 1.05 - 1.15
Persian, bbls.....lb. .30 - .45
Orange mineral, American, bbls., 5 tons, f.o.b. ship't point, frt. alld..lb. .20½- —
smaller lots, bbls., f.o.b. ship't point, frt. alld..lb. .21 - —
Orange flowers, bis.....lb. .46 - .48
Orange peel, bitter, Haitian, bls. lb. .13 - .14
Sweet, bls.....lb. .14 - .16
Oregano, Italian, bgs.....lb. .27 - .27½
Mexican, bgs.....lb. .16 - .16½
Portuguese, bgs.....lb. .24½- .36½
Orris root, Florentine, bls.....lb. .38 - .39
Verona, bls.....lb. .23 - .24
Orthoamylphenol, dms., works.lb. .27 - —
Orthoanisidin, bbls.....lb. .70 - —
Orthochloroanilin, dms.....lb. .60 - —
Orthochlorophenol, dms.....lb. .25 - .31
Orthocresol, 30.4° C., min., M.P., dms., c.l., works..lb. .24 - .245
l.c.l., works.....lb. .245 - .25
29° C., min., M.P., dms., c.l., works..lb. .23 - —
l.c.l., works.....lb. .235 - —
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies..lb. .07½- .08
l.c.l., same basis.....lb. .09½- .10½
tanks same basis.....lb. .07 - —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.
Orthonitroanilin, dms.....lb. .43 - .55
Orthonitrochlorobenzene, dms..lb. .15 - .18
Orthonitrodiphenyl, tech., grade A., dms., c.l., works.lb. .10 - —
l.c.l., works.....lb. .11 - —
grade B, dms., c.l., works.lb. .06 - —
l.c.l., works.....lb. .07 - —
Orthonitroparachlorophenol, cns., dms..lb. .75 - —
Orthonitrotoluene, dms.....lb. .06 - .09
Orthophenetidin, dms.....lb. .90 - —

VICTOR Chemicals



for... METAL TREATING

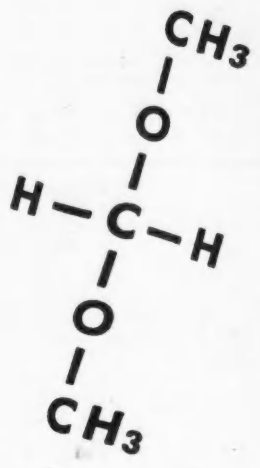
VICTOR CHEMICAL WORKS



In treating metal for corrosion resistance, phosphoric acid and other specially developed compounds are widely used by manufacturers of automobiles, telephones, refrigerators, washing machines, water heaters, stoves and similar appliances. These compounds form effective, rust-retarding phosphate coatings on iron and steel surfaces and provide a more perfect bond where paint is to be applied. ¶ Victor chemicals used in metal treating, cleaning, plating, and the manufacture of alloys include: **Ferrophosphorus** (manufacture of special steels), **Hemisodium Phosphate** (contact tinning of brass), **Oxalic Acid** (cleaning railroad cars, brass polish, rust-proofing), **Phosphoric Acid** (metal cleaning compounds, rust-proofing, railroad car cleaning, electropolishing), **Phosphorus** (manufacture of phosphor-copper), **Sodium Acid Pyrophosphate** (contact tinning), **Sodium Formate** (plating baths), **Sodium Phosphates** (cleaning compounds, tin plating, degreasing), **Wetting Agents** (accelerate action of cleaning compounds).

VICTOR CHEMICAL WORKS, 141 W. Jackson Blvd., Chicago 4, Ill.
NEW YORK · KANSAS CITY · ST. LOUIS · NASHVILLE · GREENSBORO, N. C.
Plants: NASHVILLE · MT. PLEASANT, TENN. · CHICAGO HEIGHTS, ILL. · VICTOR, FLA.

METHYLAL
(dimethoxy-methane)
A CELANESE* CHEMICAL FIRST



Now, for the first time, methylal (dimethoxy-methane) is available in quantities which justify large scale experimentation and pilot plant development. Celanese' pure methylal holds promise of extensive application in processes that require a low boiling, extremely high power solvent.

As a solvent for plastics and other organic compounds, methylal is superior to ether and acetone in many respects—its relatively high water solubility and ability to be salted out of solution are characteristics of specific value. Its low boiling point (42°C) and stability toward alkalies points to its value as a vaporizing, extraction or reaction solvent.

	PHYSICAL PROPERTIES	TENTATIVE SPECIFICATIONS
METHYLAL CONTENT	100%	95% Min.
COLOR	Water White	Water White
SPECIFIC GRAVITY $\frac{20°C.}{4}$	0.8601	0.8600—0.8630
FLASH POINT, OPEN CUP, approx.	0° F.	0° F.
BOILING POINT,	42.3° C.	41.5°—43.5° C.
REFRACTIVE INDEX, n $\frac{20°C.}{D}$	1.3534	1.3530—1.3550

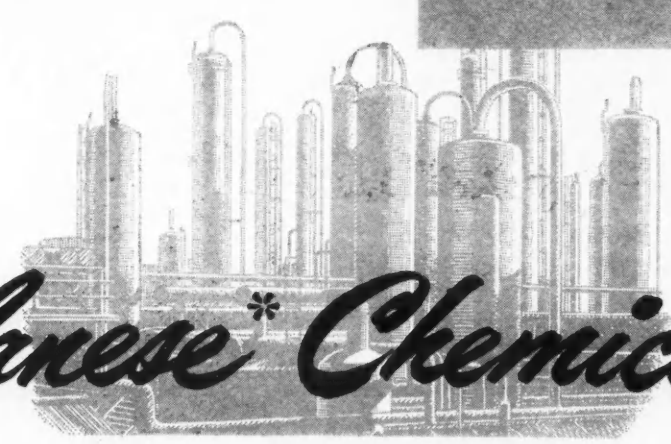
Celanese production of methylal will be expanded to meet volume requirements as they develop. Write for experimental sample and specification bulletin. Celanese Chemical Corporation, a division of Celanese Corporation of America, 180 Madison Avenue, New York 16, N. Y.

TETRAHYDROFURANE

Available now in pilot plant quantities, this solvent and intermediate is scheduled for quantity production in the near future.

	PHYSICAL PROPERTIES	TENTATIVE SPECIFICATIONS
COLOR	Water White	Water White
SPECIFIC GRAVITY, $\frac{20°C.}{4}$	0.8880	0.8840—0.8890
FLASH POINT, OPEN CUP, approx.	70° F.	70° F.
BOILING POINT,	66° C.	63°—69° C.
REFRACTIVE INDEX, n $\frac{20°C.}{D}$	1.4070	1.4045—1.4075

Among its many uses, tetrahydrofurane is an exceptional solvent for vinyls and other plastics, and also is an unusual intermediate for the manufacture of adipic and succinic acids and many other compounds.



Celanese Chemicals*

ALCOHOLS · ALDEHYDES · ACIDS · SOLVENTS · INTERMEDIATES · PLASTICIZERS

*Reg.U.S.Pat.Off.

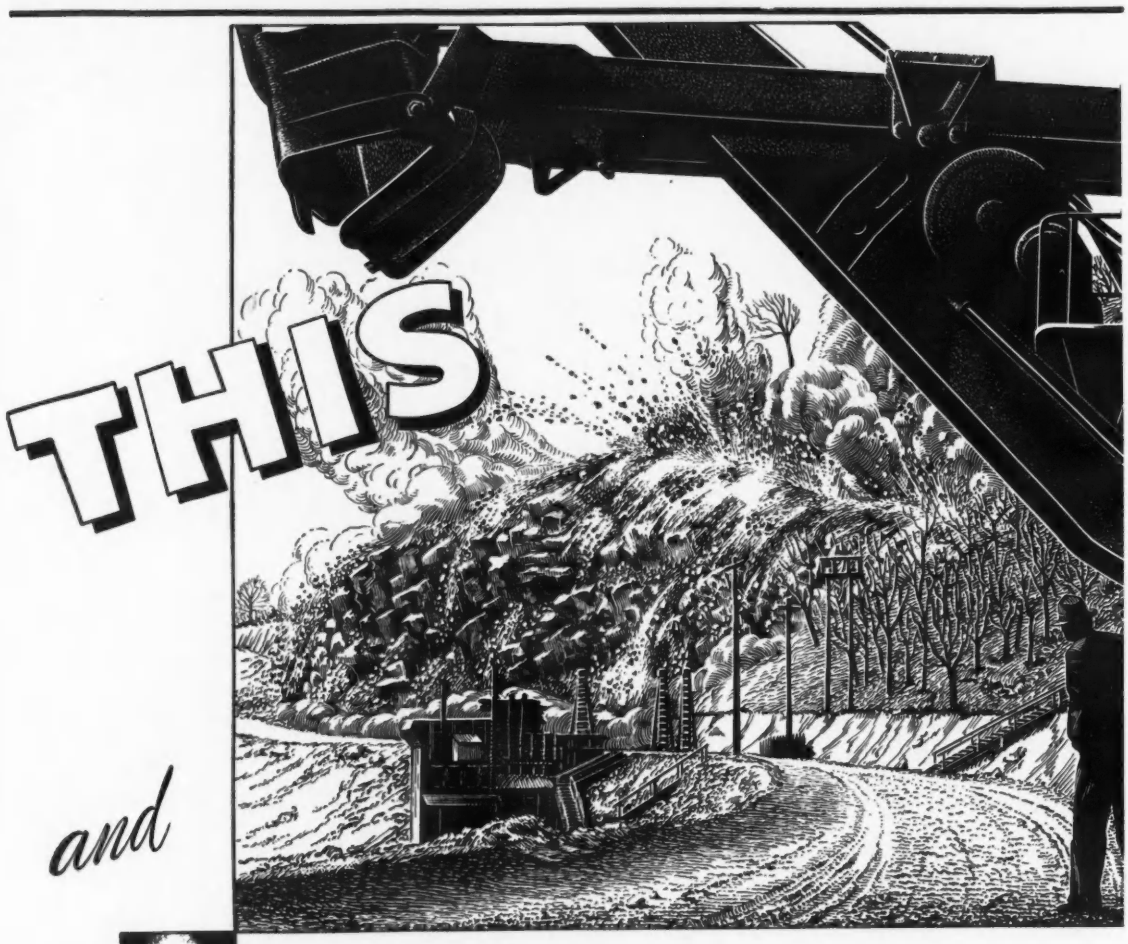
Orthotoluidin, dms.	lb.	.18 -	.21
Osage orange crystals, bbls.	lb.	.32 -	—
extract, No. 1, bbls.	lb.	.15 -	—
Ouabaine, USP, bots.	gram.	3.00 -	4.00
Oxyquinolin sulphate, cns., 100 lbs., works.	lb.	6.40 -	—
small lots, works.	lb.	6.55 -	7.40

P

Papain, powd., cs.	lb.	5.75 -	6.00
Papaverine, natural or synthetic, hydrochloride, NF, cns., 1,000-oz. lots.	oz.	7.00 -	—
smaller lots.	oz.	7.25 -	7.60
Sulphate, cns.	oz.	7.10 -	7.35
Paprika, Chilean, bgs.	lb.	.33 -	.34
Portuguese, bgs.	lb.	.41½ -	.42
Spanish, bgs.	lb.	.47 -	.49
Para-anisidin, dms., works.	lb.	.75 -	—
Parachlorophenol, dms., c.l., works.	lb.	.25 -	—
l.c.l., same basis.	lb.	.27½ -	.29
Paracresol, bots., works.	lb.	.41 -	.50
Paracymene, dms., c.l., works.	lb.	.1595-	—
l.c.l., same basis.	lb.	.1645-	—
tanks, same basis.	lb.	.1545-	—
Paradichlorobenzene, dms., c.l., works.	lb.	.12½-	—
l.c.l., same basis.	lb.	.14 -	—
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery.	lb.	.06 -	.06¼
fully ref'd slabs, loose, 117-119 ASTM, c.l., refinery.	lb.	.06 -	—
123-125 ASTM, refinery.	lb.	.0610-	.0645
125-127 ASTM, refinery.	lb.	.0610-	.0655
128-130 ASTM, refinery.	lb.	.0640-	.0675
130-132 ASTM, refinery.	lb.	.0665-	—
133-135 ASTM, refinery.	lb.	.0695-	.0710
135-137 ASTM, refinery.	lb.	.0720-	—
Prices in bags 4/10c. lb. higher.			
Paraformaldehyde, dms., 1,000 lbs. or more, works.	lb.	.21 -	—
smaller lots, works.	lb.	.23 -	—
Paraldehyde, tech., 98% 55 and 110-gal. dms., l.c.l., wks.	lb.	.13 -	—
10-gal. dms., works.	lb.	.16 -	—
USP, cbys.	lb.	.49 -	.62
Paranitroaniliin, kgs., works.	lb.	.41 -	.43
Paranitrochlorobensene, kgs., wks.	lb.	.15 -	—
Paranitrophenol, kgs.	lb.	.35 -	—
Paranitrotoluene, kgs., works.	lb.	.30 -	—
Paraphenylenediamine, tech., kgs.	lb.	1.25 -	—
Paratolusenesulphonamide, bbls.	lb.	.70 -	—
Paratoluidin, bbls., works.	lb.	.44 -	.53
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. East.	lb.	.31 -	—
l.c.l., same basis.	lb.	.32 -	.33
Passion flower herb, bls.	lb.	.48 -	.50
Patchouli leaves, bls.	lb.	.38 -	.40
Pectin, bbls.	lb.	1.25 -	—
Penicillin, amorph., calcium, bulk, 1,000,000,000 units.. 100,000 units.		.19 -	—
sodium, bots. 100,000 units.		.25 -	—
cryst., sodium, bots. 100,000 units.		.27 -	—
bulk, 1,000,000,000 units.... 100,000 units.		.21 -	—
Pennyroyal leaves, bls.	lb.	.24 -	.25
Pentachlorophenol, dms., works.	lb.	.20 -	.25
Pentaerythritol, tech., bbls., c.l. works.	lb.	.32 -	—
l.c.l., works.	lb.	.34 -	.36
Pentane, 28°-38° C., industrial grade, dms., c.l., Group 3, gal.		.11 -	.14
l.c.l., dms., Group 3, gal.		.17 -	.20
tanks, Group 3.	gal.	.07½-	.08
28°-38° C., laboratory grade, 10-gal. cns., dlvd. E.	gal.	.35 -	—
dms., c.l., Group 3.	gal.	.16 -	—
l.c.l., Group 3.	gal.	.20 -	—
Pepper, black, bgs.	lb.	.33½-	.34
futures, bgs.	lb.	.32½-	.33
Red, capsicum, Louisiana, longs, bgs., shipment point.	lb.	.20 -	.21
sports, bgs.	lb.	No stocks	
Mombassa, bgs.	lb.	.39 -	.40
Niger, bgs.	lb.	.30 -	.31
Sierra Leone, futures.	lb.	.27 -	.28
Chillies, Haitian, bgs.	lb.	.56 -	.57
Mexican, long	lb.	.50 -	.51
White, bgs.	lb.	.51 -	.51½
Peppermint, dom., USP, bls.	lb.	1.00 -	1.05
imported, USP, bls.	lb.	.96 -	1.00
Perchloroethylene, dms., c.l., Zone 1, works, frt. alld.	lb.	.10¼-	—
Zone 2, same basis.	lb.	.10¾-	—
Zone 3, same basis.	lb.	.11¼-	—
Zone 4, same basis.	lb.	.11¾-	—
l.c.l., Zone 1, same basis.	lb.	.10¾-	—
Zone 2, same basis.	lb.	.11¼-	—
Zone 3, same basis.	lb.	.11¾-	—
Zone 4, same basis.	lb.	.11¾-	—

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Peru balsam, dms.	lb.	1.05 -	1.10
Petrolatum, tech., dark, bbls., c.l., Group 3.	lb.	.021 -	—
Pennsylvania refy.	lb.	.045 -	—
golden topaz, bbls., c.l.	lb.	.032 -	—
l.c.l.	lb.	.036 -	—
red, veterinarian, bbls., c.l.	lb.	.024 -	—
l.c.l.	lb.	.028 -	—
USP, amber, non-ret. dms., c.l.	lb.	.05 -	—
Pennsylvania refy.	lb.	.04875-	—
l.c.l.	lb.	.06 -	—
California	lb.	.08 -	—
extra, amber, dms., c.l.	lb.	.05¼-	—
l.c.l.	lb.	.06¼-	—
cream, c.l., dms.	lb.	.07 -	—
l.c.l.	lb.	.08½-	—
Petrolatum, USP, white, lily, dms., c.l.	lb.	.07¼-	—
l.c.l.	lb.	.08¾-	—
snow, dms., c.l.	lb.	.08¼-	—
Pennsylvania refy.	lb.	.06125-	—
l.c.l.	lb.	.09¾-	—
California	lb.	.1175-	—
soft, dms., c.l.	lb.	.07¼-	—
Pennsylvania refy.	lb.	.07125-	—
l.c.l.	lb.	.08¼-	—
California	lb.	.1075-	—
yellow, soft, dms., c.l.	lb.	.05½-	—
Pennsylvania refy.	lb.	.04875-	—
l.c.l.	lb.	.06¼-	—
California	lb.	.08 -	—
Petroleum, crude, bulk, at wells, California, heavy grades..	bbl.	1.53 -	2.14
Illinois	bbl.	1.95 -	2.07
Kentucky, Union County.	bbl.	1.97 -	2.02
Louisiana-Arkansas	bbl.	1.63 -	2.09
Montana	bbl.	1.55 -	1.95
Oklahoma-Kansas	bbl.	1.53 -	1.95
Pennsylvania, lower field.	bbl.	3.73 -	3.91
Upper field.	bbl.	1.86 -	2.40
Texas, East.	bbl.	1.65 -	1.95
Gulf coast.	bbl.	1.76 -	2.06
North, North-Central.	bbl.	1.53 -	1.95
Panhandle	bbl.	1.53 -	1.95
West	bbl.	1.40 -	1.82
Wyoming	bbl.	1.55 -	1.95
Ether, laboratory grade, 30°-60° C, 10-gal. cns., dlvd. E.	gal.	.55 -	—
dms., c.l., Group 3.	gal.	.16 -	—
l.c.l., same basis.	gal.	.20 -	—
35°-60° C, 10-gal. cns., dlvd. E.	gal.	.55 -	—
dms., c.l., Group 3.	gal.	.16 -	—
l.c.l., same basis.	gal.	.20 -	—
40°-73° C, 10-gal. cns., dlvd. E.	gal.	.55 -	—
dms., c.l., Group 3.	gal.	.16 -	—
l.c.l., same basis.	gal.	.20 -	—
Fuel oil, furnace, tanks, at refinery, Arkansas, No. 2.	gal.	.04½-	—
No. 3.	gal.	.04¼-	—
Bayonne, No. 2, tanks..	gal.	.0640-	—
California, heavy.	bbl.	1.50 -	1.55
light	bbl.	1.70 -	1.75
diesel	gal.	.0745-	.0795
Group 3, No. 1.	gal.	.04¾-	.04¾
No. 2, straw.	gal.	.04¼-	.04¾
No. 3.	gal.	.04 -	.04½
Oklahoma, No. 1, p.w.	gal.	.04¾-	.05½
No. 1, straw.	gal.	.04¾-	—
No. 2, straw.	gal.	.04¼-	.04¾
No. 3.	gal.	.04 -	.04¼
No. 6.	bbl.	1.15 -	1.25
range	gal.	.04½-	—
Pennsylvania, No. 1.	lb.	.06¾-	.07
No. 2.	gal.	.06¼-	.06½
No. 3.	gal.	.06¼-	.06¾
36-40 gravity.	gal.	.06¼-	—
Bunker C (No. 6), tanks, Albany, N. Y.	bbl.	2.42 -	—
Baltimore, Md.	bbl.	2.22 -	—
Boston, Mass.	bbl.	2.26½-	—
Charleston, S. C.	bbl.	2.13 -	—
Jacksonville, Fla.	bbl.	1.83 -	2.08
New York, N. Y.	bbl.	2.22 -	—
Norfolk, Va.	bbl.	2.18 -	—
Philadelphia, Pa.	bbl.	2.22 -	2.27
Portland, Me.	bbl.	2.26½-	—
Providence, R. I.	bbl.	2.23½-	—
Savannah, Ga.	bbl.	2.13 -	—
Lacquer, diluent, California, 100 l.b.n., 200 c.p., tanks, dlvd. Los Angeles.	gal.	.118 -	—
Seattle, Wash.	gal.	.128 -	—
East Coast, N. J., N. Y., tanks, refinery.	gal.	.13 -	—
Group 3, benzol type, tanks,	gal.	.09¾-	—
toluol type, tanks.	gal.	.09¾-	—
San Francisco.	gal.	.11½-	—
Portland, Ore.	gal.	.128 -	—
Mineral spirits, California, San Francisco, 170-250 b.r., tanks.	gal.	.123 -	—
205-290 b.r., tanks.	gal.	.123 -	—
244-362 b.r., tanks.	gal.	.123 -	—
307-360 b.r., tanks.	gal.	.113 -	—
312-402 b.r., tanks.	gal.	.113 -	—
362-458 b.r., tanks.	gal.	.113 -	—
East Coast, N. J., N. Y., tanks, refinery.	gal.	.12½-	—
Group 3, tanks, refinery.	gal.	.07¾-	.08½
Gulf coast, tanks.	gal.	.07¾-	—
tankwagon, Baltimore.	gal.	.14½-	—
Boston	gal.	.13 -	—
Buffalo	gal.	.13½-	—
Camden, N. J.	gal.	.12½-	—
Chicago	gal.	.1460-	—
Detroit	gal.	.1710-	—
Kansas City, Mo.	gal.	.1435-	—
Lancaster, Pa.	gal.	.13½-	—
Newark	gal.	.12½-	—
New York.	gal.	.12½-	—
Philadelphia	gal.	.12 -	—
Pittsburgh	gal.	.13½-	—
Providence	gal.	.15 -	—
Rochester	gal.	.13½-	—
St. Louis.	gal.	.149 -	—
Syracuse	gal.	.15½-	—
Washington, D. C.	gal.	.14½-	—
Wilmington, Del.	gal.	.12 -	—
Naphtha, cleaners, California, tanks, San Francisco.	gal.	.153 -	—
East coast, N. J., N. Y., tanks, refinery.	gal.	.11 -	—
Group 3, tanks, refinery.	gal.	.05¾-	.06¼
tankwagon, Newark.	gal.	.06½-	—
Chicago	gal.	.14¼-	—
Detroit	gal.	.15¼-	—
New York.	gal.	.12 -	—
Philadelphia	gal.	.125 -	—
St. Louis.	gal.	.1470-	—
high flash, 140° F, Group 3 refinery, tanks.	gal.	.12 -	.12½
high-solvency, No. 8, tanks, Paulsboro, N. J.	gal.	.18½-	—
No. 30, tanks, same basis.	gal.	.19¼-	—
No. 40, tanks, same basis.	gal.	.19¾-	—
No. A-80, tanks, Carteret, N. J.	gal.	.20 -	—
A-80, tanks, Chicago, Cincinnati, Detroit.	gal.	.24	Nom.
No. B-90, tanks, Carteret, N. J.	gal.	.21½-	—
No. F-80, tanks, Carteret, N. J.	gal.	.24 -	—
V.M.&P., at refinery, 46.5, 254 i.b.p., 380 e.p., tanks, El Segundo.	gal.	.12 -	—
Richmond	gal.	.12½-	—
Portland, Ore., Seattle, Wash.	gal.	.12 -	—
California, 64-77, 190 i.b.p., 310 e.p., Los Angeles.	gal.	.11 -	—
San Francisco.	gal.	.11½-	—
Portland, Seattle.	gal.	.12 -	—
E. Coast, N. J., N. Y., tanks, refinery.	gal.	.12½-	—
Group 3, tanks.	gal.	.09¾-	—
Gulf Coast (dlvd. New Orleans), tanks.	gal.	.10 -	—
tankwagon, Boston.	gal.	.14 -	—
Chicago	gal.	.149 -	—
Detroit	gal.	.163 -	—
Milwaukee	gal.	.165 -	—
Minneapolis	gal.	.164 -	—
Newark	gal.	.13½-	—
New York.	gal.	.13 -	—
Philadelphia	gal.	.13½-	—
Pittsburgh	gal.	.14½-	—
St. Louis.	gal.	.159 -	—



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PENN SALT CHEMICALS

PENNSYLVANIA SALT MANUFACTURING COMPANY

PHILADELPHIA 7, PA. TACOMA, WASHINGTON

Petroleum solvent, rubber, at refinery, California, San Francisco, tanks..gal. .11½- —
East Coast, N. J., N. Y., tanks..gal. .12½- —
Group 3, tanks.....gal. .09½- —
Stoddard (C.S. 8-33), at refinery):—
California (San Francisco), tanks..gal. .12 - —
East Coast, N. J., N. Y., tanks..gal. .11½- —
Group 3, tanks.....gal. .08½- .09⅝
Pennsylvania, western, tanks..gal. .09¼- —
tankwagons, Boston.....gal. .13 - —
Chicago .....gal. .14½- —
Detroit .....gal. .16½- —
Milwaukee .....gal. .15½- —
Minneapolis .....gal. .1540- —
Newark .....gal. .13½- —
New York.....gal. .12½- —
Philadelphia .....gal. .12½- —
Pittsburgh .....gal. .13 - —
St. Louis .....gal. .14½- —
Syracuse .....gal. .15½- —
Sulphonates, 68% sulphonic content, ret. dms., c.l., wks. lb. .09¾- —
l.c.l., works .....lb. .09¾- .10¾
50% sulphonic content, ret. dms., c.l., works..lb. .09¾- —
l.c.l., works.....lb. .09¾- .10¾
tanks, works .....lb. .09½- —
Phenobarbital, dms., 100 lbs...lb. 3.50 - 4.50
Phenol, 90-92% (cresol, 8-10%), dms., c.l., wks., frt. equald. lb. .11¾- .12¼
l.c.l., same basis.....lb. .12½- —
tanks, same basis.....lb. .10½- .11½
82-84% (cresol, 16-18%), dms., c.l., same basis..lb. .11¾- .12
l.c.l., same basis.....lb. .12½- .12¾
tanks, same basis.....lb. .11 - —
USP, dms., c.l., same basis.lb. .11¾- .12
l.c.l., same basis.....lb. .12 - .12¾
tanks, same basis.....lb. .10¼- .11¾
Phenolphthalein, USP, bbls., dms., 2,000 lbs..lb. .85 - —
smaller lots.....lb. .87 - .92
Yellow, nb. dms., 2,000 lbs...lb. .80 - —
smaller lots .....lb. .82 - .87
Phenothiazin, NF, fib. dms., ton lots or more, works..lb. .49 - —
smaller lots, works .....lb. .54 - —
Phenylacetaldehyde solution, 50%, bots..lb. 2.25 - 2.75
pure, bots. .....lb. 4.00 - 5.12
Phenylethyl acetate, dms.....lb. 2.40 - 3.65
Phenylethylphenyl acetate, bots. lb. 5.15 - 7.50
Phenylhydrazin base, CP, bots.lb. 4.55 - —
Hydrochloride, CP, bots., works. lb. 7.10 - —
commercial, kgs., works...lb. 1.75 - —
Phloroglucinol, CP, fib. dms...lb. 13.75 -14.75
tech., fib. dms.....lb. 12.00 12.55
Phosgene, 150-lb. cyls., works..lb. .20½- .35
10-lb. cyls., works.....lb. 1.00 - —
Phosphate, defluorinated (see under D).
Phosphate rock, Fla., land pebble unground, run-of-mine, washed, dried, 68-66%, b.p.l., bulk, car at mine, c.i.... long ton. 2.94 - 3.00
70%-68%, same basis.. long ton. 3.34 - 3.49
72½-70%, b.p.l., same basis..long ton. 3.94 - 4.00
75%-74%, b.p.l., same basis..long ton. 4.94 - 5.00
77%-76% b.p.l., same basis..long ton. 5.94 - 6.00

Prices for Florida phosphate are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble 50c. per long ton higher than above quotations.

finely ground, 65.5% b.p.l., 30% P_2O_5 minimum.. short ton. 4.65 - —
68% b.p.l., basis 31% P_2O_5 minimum..short-ton. 4.85 - —
70%, b.p.l. basis 32% P_2O_5 minimum..short-ton. 5.20 - —
Tennessee, brown, unground, run-of-mine, 70-68% b.p.l., 5½% l. & a., same basis. long ton. 5.50 - —
72%-70%, b.p.l., 5½% l. & a., same basis..long ton. 6.00 - —
29% P_2O_5, same basis..... long ton. 5.15 - —
30% P_2O_5, same basis.... long ton. 5.35 - —
finely ground, 31% P_2O_5, same basis..short-ton. 5.45 - —
32% P_2O_5, same basis.... short ton. 5.70 - —
34% P_2O_5, same basis.... short ton. 6.20 - —
Phosphorus, red amorpheous, cs. lb. .33 - .35
tins, export .....lb. .55 - —
yellow, cns. .....lb. .25 - .27
dms., c.l .....lb. .22 - —
Oxychloride, dms., c.l.....lb. .10½- —
Pentoxide, dms., c.l., works.. lb. .12 - —
l.c.l., works .....lb. .13 - .14
Sesquisulphide, tins, cs.....lb. .26 - .27
Trichloride, dms., c.l.....lb. .10½- —
l.c.l. .....lb. .12½- .15
Phthalamide, bbls., works....lb. .35 - .40
kgs., works .....lb. .45 - .50
Phthalic annydride, bgs., bbls., c.l., works, frt. alld. E. of Denver..lb. .14½- —
l.c.l., same basis.....lb. .15½- —
Pichi leaves, bgs .....lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline)
Picrotoxin, bots .....oz. 8.00 - —
Pilocarpine hydrochloride, USP, bots vials..oz. 6.50 - 7.50
Nitrate, bots vials .....oz. 6.25 - 7.25
Pimento, Jamaica, bgs .....lb. .23½- .24
Pinetar, retort, dms., extra, c.l., works South..gal. .36½- —
l.c.l., works, dms., extra.. gal. .39½- —
l.c.l., whse N Y C, dms., extra gal. .47¾- —
tanks, works South .....gal. .30½- —
Pinkroot, bls .....lb. 1.10 - 1.15
Piperazine hexahydrate, bots..lb. 13.00 -13.50
Pitch, burgundy (see H)
Coaltar, 150° m p, bbls., c.l., works..ton. 24.25 - —
l.c.l. works .....ton. 27.25 - —
Cottonseed, dms., works .lb. .10½- .10¾
Hardwood, paper bgs., works.; lb. .04 - —
Linseed, dms. .....lb. No prices
Petroleum (see Asphaltum, Mexican, Texas)
Pitch, pine, dms.....100 lbs. 7.85 - —
stands, 200 lbs .....stand 15.70 - —
Soybean, dms., works.....lb. .10¼- .10¾
Plaster of paris (see Gypsum)
Podophyllin, dms .....lb. 13.50 -13.75
Pokeroot, bls .....lb. .16 - .17

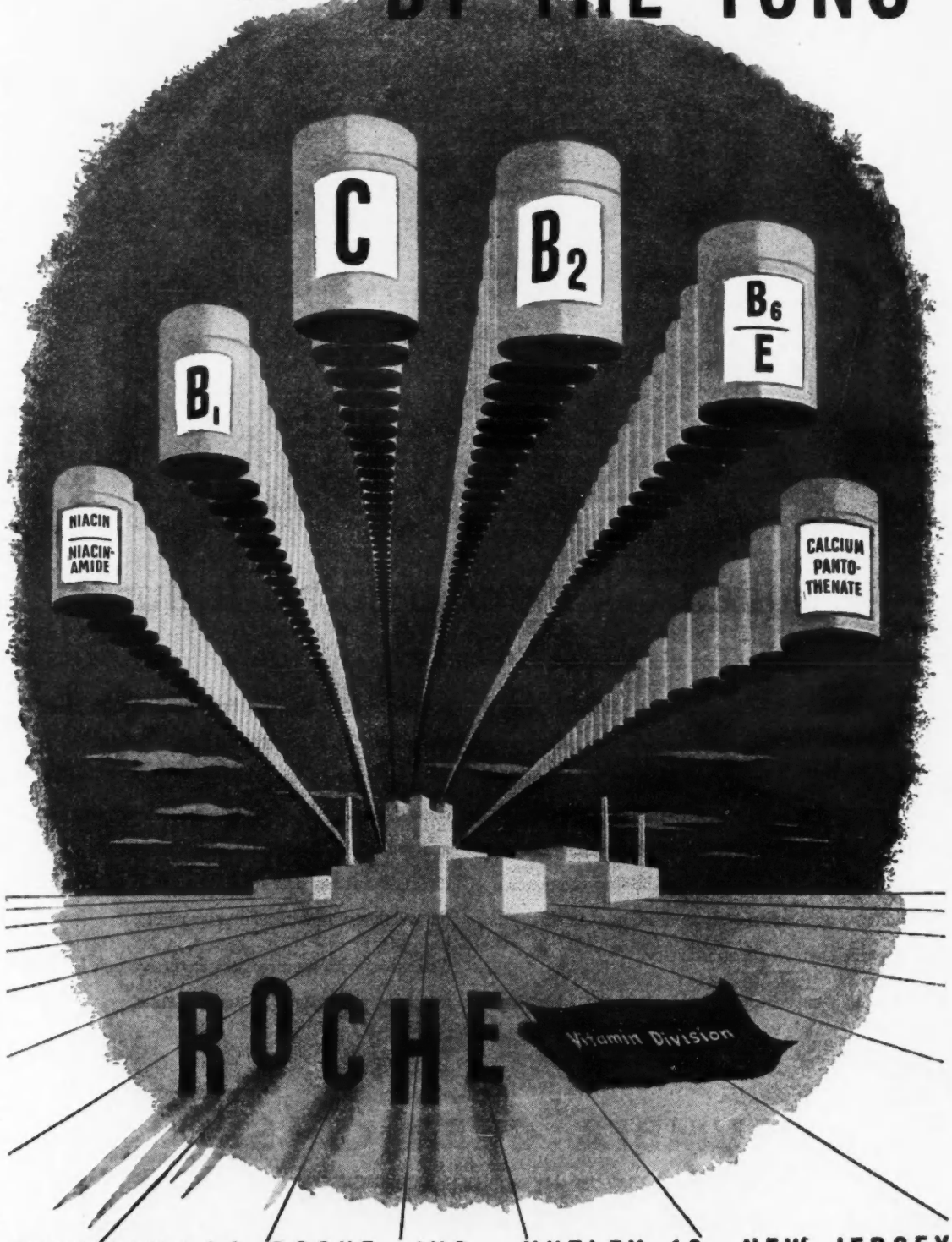
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld. lb. .31½- —
20,000 lbs., frt alld.....lb. .32½- —
smaller lots, frt. alld....lb. .33½- .35½
Water-clear, polystyrene, 7c. per lb. less than plain colors.
Pomegranate, root bark, bgs..lb. .75 - .76
Poppy flowers, bls .....lb. .60 - .70
Seed, Argentine, bgs.....lb. .19¼- .20
Danish, bgs. .....lb. .21 - .21½
Dutch .....lb. .23½- .24
Turkish, bgs. .....lb. .21 Nom.
Potash abietate.....lb. .06 - —
Acetate, USP, dms.....lb. .82 - .84
Bicarbonate, USP, gran., dms. lb. .20 - .22
powd., dms.....lb. .22 - .24
Bichromate, bgs., c.l., works.. lb. .10¾- —
l.c.l., works.....lb. .10¾- .11¼
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works. ton. 200.00 - —
ton lots, works.....ton. 218.50 - —
less ton lots, works....ton. 223.50 - —
Bromide, USP, cryst., gran., 500-lb. bbls., dms..lb. .25 - .26
Carbonate, calcined, bbls., c.l., works..lb. .07¼- —
l.c.l., same basis.....lb. .08 - —
hydrated, 83-85%, bbls., c.l., works..lb. .05¾- —
dms., l.c.l., same basis..lb. .06½- —
USP, gran., bbls., dms....lb. .14 - .19
powd., bbls., dms ....lb. .20 - .25
Caustic, low-chloride, 90% basis, flake, dms., c.l., works. 100 lbs. 9.50 - —
l.c.l., works....100 lbs. 10.25 - —
liquid, dms., c.l., works.... 100 lbs. 8.75 - —
l.c.l., works....100 lbs. 9.50 - —
tanks, works.....100 lbs. 8.25 - —

Potash caustic, solid.....100 lbs. 8.75 - —
l.c.l., works....100 lbs. 9.50 - —
regular, flake, 88-92%, dms., c.l., works..lb. .07½- —
l.c.l., works.....lb. .08¼- —
liquid, 45% basis, dms., c.l., works, frt. alld..lb. .03 7½- —
l.c.l., same basis.....lb. .03¾- —
tanks, same basis.....lb. .03½- —
solid, 88-92%, dms., c.l., works..lb. .06¾- —
l.c.l. .....lb. .07½- —
Chromate, tech., bgs.....lb. .25 - .30
Chlorate, cryst., kgs., c.l., wks. lb. .08½- —
l.c.l., works.....lb. .09¾- —
powd., dms., kgs., c.l., works. lb. .09 - —
l.c.l., works.....lb. .09¾- —
export, 1 to 10 tons, kgs., ex whse..gal. .12 - —
Chloride, tech., cryst., 96%, bgs., kgs..lb. .08 Nom.
Citrate, USP, gran., bbls., dms. lb. .33½- .36½
powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, bbls.....lb. .34 - .40
Glycerophosphate, 75% solution, cbys..lb. 2.30 - —
Guaiacol sulphonate, NF, dms. lb. 1.80 - 1.85
Hydroxide, USP, sticks, dom.lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodide, dms.....lb. 1.75 - 1.78
Manure salt, 22% K_2O, Carlsbad, N. M..unit-ton. .20 - —
25% K_2O, same basis.unit-ton. .21 - —
Metabisulphite, gran., bbls...lb. .19 - .21
powd., bbls.....lb. .25 - —
Muriate, dom., 60-62-63% K_2O, bulk, ex vessel ports.... unit-ton. .53½- —

Potash muriate, dom., 50-52% K_2O, ex vessel, U. S. ports..unit-ton. .53½- —
Domestic muriate of potash prices, c.l., f.o.b. Carlsbad, N. M., are 13.5c. per unit of K_2O less than ex vessel price, basis Trona, Cal.; 8c. per unit of K_2O less than ex vessel price at Pacific coast ports.
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .29 - .34
Perchlorate, kgs., works.....lb. .10 - .11
Permanganate, tech., dms., works..lb. .20¾- .21¼
USP, dms., works.....lb. .22½- .23
Persulphate, dms., c.l., works. lb. .16 - —
l.c.l., same basis.....lb. .20 - —
Phosphate, tetrabasic, bbls., works..lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .83
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .13 - —
Silicate, glass, bgs., c.l., works. ton. 200.00 - —
l.c.l. .....100 lbs. 15.25 - —
solution, 29° Be ret. drums, c.l. works..100 lbs. 4.25 - —
l.c.l., 5 or more, works... 100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works..100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —

SUPERIOR QUALITY VITAMINS

---- BY THE TONS



HOFFMANN-LA ROCHE, INC., NUTLEY 10, NEW JERSEY

Potash sulphate, NF, cryst...lb. .30½- .33½
powd., bbls.....lb. .14½- .17
tech., dom., bulk[2] basis 90-95% K_2O_4, min. 90%, ex vessel Atlantic or Gulf ports..ton.36.25 - —
West coast potash ports, same basis..ton.39.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Triocyanate (see Potash sulphocyanide).
Xanthate, dms., c.l.....lb. .12 - —
Potash-magnesia sulphate, bulk, min., 40% K_2SO_4 18.50% MgO, ex vessel, ports...ton.26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .45 - .48
Potash-titanium oxalate, bbls., dms..lb. .50 - .55
Prickly ash bark, bls.....lb. .40 - .45
Berries, bgs.....lb. .50 - .60
Prince's pine herb, bls.....lb. .50 - .55
Procaine hydrochloride, cns., 100-lb. lots..lb. 5.00 - —
Propane, industrial grade, tanks, Group 3..gal. .03½- —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla, bls.....lb. .60 - .65
Pumice, grd., fine, bgs., ton lots.lb. .03½- —
smaller lots.....lb. .03½- .04
coarse, 6½, 1, 1½, 2, 3, bgs., ton lots..lb. .03½- —
smaller lots.....lb. .03¾- .04¼
Chl., ton lots.....lb. .04½- —
Pumice, grd., Italian, silk-screen, fine, ton lots, bgs..lb. .04 - —
coarse, same basis.....lb. .05½- —
sun-dried, fine, ton lots, bgs. lb. .03 - —
coarse, same basis.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs.....lb. .27 - .29
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 3.85 - 4.55
linseed oil, raw, dms....100 lbs. 8.50 - 9.90
refined, dms.....100 lbs. 12.00 -13.20
standard, dms.....100 lbs. 7.15 - 8.05
Pyrethrum, concentrate, dewaxed, 20% for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams prethrins for 100 cc., dms., regular base, works..gal. 6.65 - —
liquid, odorless base, dms., works..gal. 6.75 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc., bbls., works..gal.10.00 - —
Pyrethrum, flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2°, ret. dms. same basis. lb. .55 - .55½
Pyridoxin hydro'' .ide, 100-gram lots..kilo.650.00 - —
Pyrites, Spanish, c.i.f. Atl. ports, long-ton. 8.00 -10.00
Pyronate, dms., c.l., dlvd. E. of Miss..gal. .70 - —
l.c.l., works .....gal .70 - —
tanks, dlvd., E. of Miss....gal. .60 - —
Pyronate prices W. of Miss 3c. per gal. higher.

Pyrocatechin (see Catechol).
shavings, amber, cs., works..lb. .17 - —
325 mesh, same basis....ton.13.00 -13.00
No. 3, 200 mesh, c.l., mines.ton. 9.50 - —
325 mesh, same basis....ton.11.50 - —
Pyrophylite in paper bags., $1.50 per ton extra.
Pyroxylin, scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .17 - —
gray, cs., works.....lb. .17 - —
mixed, mottled, cs., wks.lb. .14 - —
white, China, ivory, cs., wks. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, cs., works....lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, amber, cs., works..lb. .17 - —
mixed colors, cs., works..lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .09 - .12
Quebracho extract, solid, 66% tannin, bgs., c.l., ex dock, in bond..lb. .09¼- .09½
clarified, 64% tannin, bgs., c.l., same basis..lb. No prices.
35% tannin, bbls., works. lb. .07 - —
tanks, works .....lb. No prices.
extract, ground, 70% tannin, bgs., c.l..lb. .14½- —
powder, bgs., c.l.....lb. .12½- —
Quebracho extract prices based on $28 freight and $1.00 insurance per long ton.
Queen of the meadow root, bgs. lb. .20 - .22
Quercitron crystals, bbls.....lb. .32 - —
Extract, No. 1, bbls.....lb. .14 - —
solid, bxs. .....lb. .27 - —
Quicksilver, flasks (76 lbs. net) flask.85.00 -86.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine, NF V, cryst., cns.oz. No stocks.
powd., precip., cns.....oz. No stocks.
Sulphate, USP, cns.....oz. No stocks.
Quinine, NF, cns., 100 ozs....oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ozs. oz. No stocks
Ethylcarbonate, NF, cns., 100 ozs..oz. No stocks
Ferrocyanide, cns., 100 ozs..oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .89½- —
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydroiodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.oz. No stocks
Salicylate, NF, cns., 100 ozs.oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. .80½- —
Sulphocarbolate, cns., 100 ozs. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs....oz. No stocks
Quinine-urea hydrochloride, USP, cns..oz. No stocks
Quinoline, dms., c.l., works...lb. .52 - .56

R

R salt, dry, bbls.....lb. .61 - .72
paste, dms. .....lb. .57 - —
Raspberries, dried, bls.....lb. 2.00 - 2.10
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.45 - 2.05

Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher dlvd. Pacific Coast prices equaled with Chicago dlvd. Denver, Pueblo, Salt Lake City, Wichita.

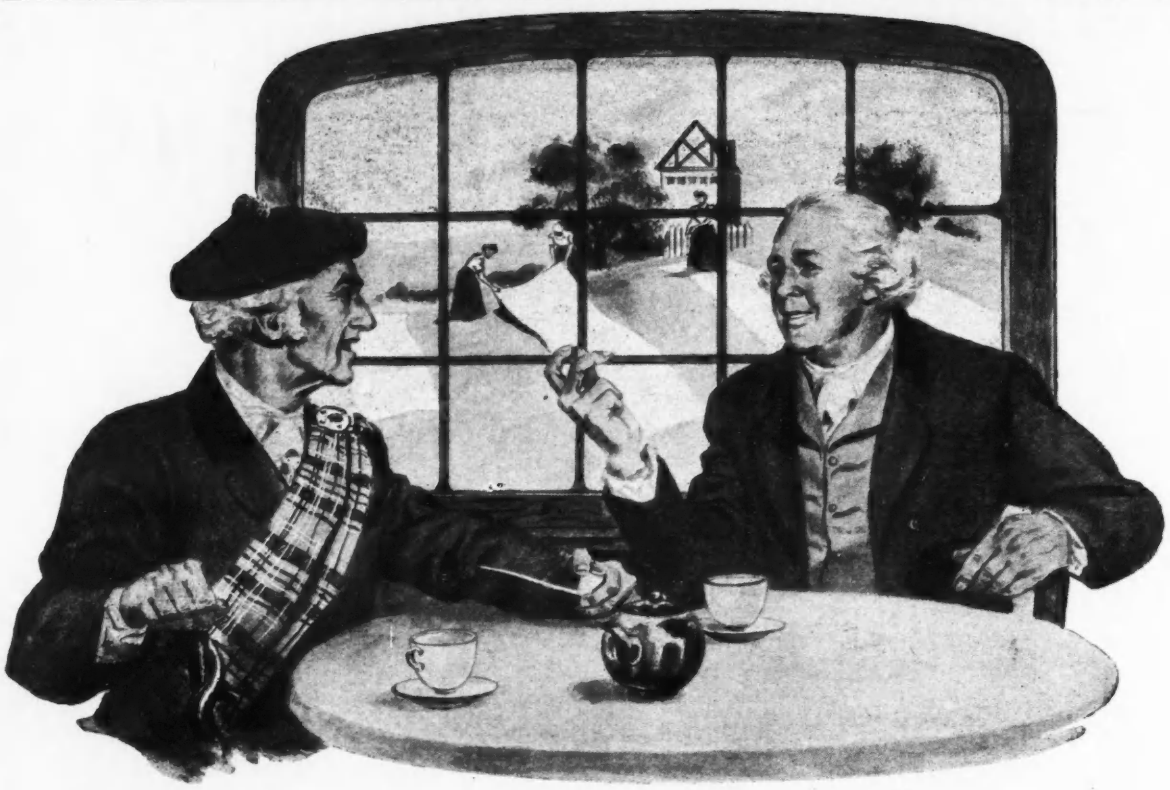
Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.25 - —
light shade, bbls., same basis..lb. 1.10 - —
maroon, bbls., same basis. lb. 1.35 - 1.45
medium shade, bbls., same basis..lb. 1.20 - —
medium-light shade, bbls., same basis..lb. 1.20 - —
Orange-red, bbls., same basis..lb. 1.15 - 1.20

Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.

Carmine, No. 40, dms., bulk, works..lb. 5.50 - 5.65
smaller lots, same basis..lb. 6.10 - 6.15
Crocus martis (see Red, purple, oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works....lb. 1.35 - —
Firetoner, dom., bbls., works.lb. .85 - .93
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y..lb. .11¼- —
80-85%, bgs., same basis.lb. .09½- —
imp., English, all shades..lb. .16 - —
Iron oxide, pure, bbls.....lb. .10 - .10¼
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., and E. St. Louis..lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lacquer, maroon, bbls., works, lb. 1.35 - 1.50
Lake C toner, alizarin, bbls., works..lb. 1.05 - —
Lithol toner, alizarin, lake, bbls., works..lb. .70 - —
Pink, bbls., works.....lb. .20 - .26
Rose lake, bbls., works.....lb. .26 - .28
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —
Maroon, alizarin lake, 25%, kgs., works..lb. .40 - .45
Cadmium, bbls., works....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —

Maroon, in smaller pkgs., 5c. per lb. higher.

Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.20 - —
smaller lots, works...lb. 2.22 - —
Metallic, bbls., works.....lb. .02 - —
Oxide (see Red, iron oxide).
Para toner, chlorinated, kgs.lb. .97 - —
concent., alizarin lake, kgs., works..lb. .80 - —
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine, Y, kgs., works..lb. 4.15 - —
Purple lake, kgs.....lb. 1.35 - —
Scarlet ink toner, kgs., works. lb. .55 Nom.
Spanish oxide, grade 1, c.l., bbls..lb. .05¾- .07
Toluidin toner, alizarin lake, kgs., works..lb. 1.25 - —
MNPT maroon toner, kgs., works..lb. 2.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .11 - —
Venetian, 15%, bgs., works...lb. .0300- —
20%, bgs., works.....lb. .0310- —
25%, bgs., works.....lb. .0340- —
30%, bgs., works.....lb. .0365- —
35%, bgs., works.....lb. .0395- —
40%, bgs., works.....lb. .0420- —
Vermillion, Amer., bbls.....lb. .22¼- .48
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., dms..lb. 2.48 - 2.50
Red saunders wood, grd., bbls.lb. .35 - —
Resorcinol tech., dms., works.lb. .68 - —
USP, cryst., dms., works....lb. 1.70 - —
Rhatany root, bgs.....lb. .13 - .14
Rhubarb, whole, cs.....lb. .90 - 1.00
powd., bbls. .....lb. 1.05 - 1.10
Riboflavin, bots.....kilo.200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option, lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs., 1 ship't..lb. .34½- —
smaller lots.....lb. .35 - —
Rose flowers, pale, bls.....lb. .24 - .26
Rosemary flowers, bls.....lb. 1.85 - 1.95
Leaves, French, bls.....lb. .12 - .12½
Portuguese, bls. .....lb. .07½- .08
Spanish, bls. .....lb. .13 - .13½



He talked *Chlorine* into an industry

"A great talker"—so a biographer describes James Watt, brilliant father of the steam engine. One can almost visualize him as he regaled his father-in-law, MacGregor, with the time-saving advantages of using "oxygenated muriatic acid" in his bleach works. Chlorine was thus talked into the first commercial bleaching application—an application that changed the entire character of an industry.

From this experimental beginning, the bleaching powers of Chlorine have been utilized with inestimable value in the textile and paper industries. In its comparatively new role as the versatile tool of chemical synthesis, Chlorine is helping to bring many new refinements to our civilization . . . a civilization it has protected from pestilence through its well-known germicidal properties.

Columbia, with its associates, is the nation's largest merchant producer of Liquid Chlorine.

COLUMBIA CHEMICALS

PITTSBURGH PLATE GLASS COMPANY • COLUMBIA CHEMICAL DIVISION

FIFTH AVENUE at BELLEFIELD, PITTSBURGH 13, PENNSYLVANIA • Chicago • Boston • St. Louis • Pittsburgh
New York • Cincinnati • Cleveland • Philadelphia • Minneapolis • Charlotte • San Francisco

COLUMBIA ESSENTIAL INDUSTRIAL CHEMICALS
Soda Ash • Caustic Soda • Liquid Chlorine • Sodium Bicarbonate • Pittchlor (*Calcium Hypochlorite*) • Silene EF (*Hydrated Calcium Silicate*) • Calcium Chloride • Soda Briquettes (*Iron Desulphurizer*) • Modified Sodas • Caustic Ash • Phosflake (*Bottle Washer*) • CalceneT (*Precipitated Calcium Carbonate*)

Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B (resin), dms., c.l., works..100 lbs. 6.00 - —
FF, dms., c.l., works.100 lbs. 7.50 - —
G, H, I, dms., c.l., works.. 100 lbs. 8.80 - —
K, dms., c.l., works..100 lbs. 8.80 - —
M, dms., c.l., works..100 lbs. 8.85 - —
N, dms., c.l., works..100 lbs. 8.90 - —
WG, dms., c.l., works.100 lbs. 8.95 - —
WW, dms., c.l., works.100 lbs. 9.00 - —
X, dms., c.l., works..100 lbs. 9.10 - —
Rotenone, bbls., works.....lb.20.00 -24.00
extract, liq., dms., works..... per unit. 1.75 - —
powder (see Cube root).
Rottenstone, bgs., c.l., mines.ton.36.00 - —
l.c.l., mines.....ton.43.00 - —
Rue, bls.....lb. .45 - .46

S

Sabadilla seed, powd., bbls....lb. .55 - .70
activated, ground, with lime, bbls..lb. .43 - .50
Saccharin, insoluble and soluble, 1,000 lbs. and up..lb. 1.30 - 1.35
smaller lots.....lb. 1.40 - 1.50
Saffron, Mexican, bls.....lb. 1.55 - 1.60
Spanish, USP, tins.....lb.)7.00 -38.00
boxes .....15 ozs.35.00 -36.00
Safrol, cns.....lb. 1.10 - 1.45
Sage, Cyprus, good, bls.....lb. .18 - .18½
futures .....lb. .17½- .18
Dalmatian, bls.....lb. .29½- .30
Greek, bls.....lb. .16 - .16½
Palestine, bls.....lb. .16 - .16½
Spanish, bls.....lb. .15 - .15½
Sago flour, bgs.....lb. .07 - .07½
Salicin, bots., 25 lbs.....lb. No stocks
cns., 25 lbs.....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. 1.00 - —
fib. dms.....lb. 1.02 - 1.05
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.17.50 - —
l.c.l., bgs.....ton.21.70 - —
vacuum, common, fine, bgs., c.l..ton.18.60 - —
l.c.l. .....ton.25.10 - —
Saltcake, dom., bulk, works..ton.20.00 -28.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons. 100 lbs.12.40 - —
smaller lots, bbls....100 lbs.12.65 -12.90
gran., bbls., 20 tons.....100 lbs. 8.00 - —
smaller lots .....100 lbs. 9.00 - 9.50
powd., bbls., 20 tons....100 lbs. 9.00 - —
smaller lots .....100 lbs.10.00 -10.50
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.
Sanguinarine nitrate, bots....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.kilo.175.00 -185.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, dom., bls...lb. .45 - .50
Honduras .....lb. .65 - .66
Mexican, bls.....lb. .60 - .65
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls.....lb. .65 - .70
Savory, French, bls.....lb. .21 Nom.
Saw palmetto berries, bgs....lb. .24 - .25
Scammony resin, lump, cns...lb. 1.30 - —
powd., cns.....lb. 1.35 - —
Root, bgs.....lb. .10 - .12½
Schaeffer's salt, bgs.....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .27¾- —
smaller lots.....lb. .28¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .28¼- —
smaller lots.....lb. .28¾- —
Selenium, pwd., cns., 10-lb. lots..lb. 1.85 - —
cs., 1,000-lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.25 - 2.35
Senna leaf, Alex., half-leaf, bls. lb. .27 - .28
siftings, bgs.....lb. .24 - .25
Tinnevelly, No. 1, bls.....lb. .25 - .27
2 bls.....lb. .23 - .25
3, bls.....lb. .21 - .23
powd., bbls., bgs.....lb. .24 - .29
Pods, bls.....lb. .53 - .54
Serpentaria root, bls.....lb. No stocks
Shellac, bleached, bonedry, bbls., 1,500-lb. lots..lb. .65 - —
Boston .....lb. .66 - —
Chicago .....lb. .66½- —
Pacific coast .....lb. .68½- —
refined, bbls., 1,500-lb. lots. lb. .73 - —
Boston .....lb. .74 - —
Chicago .....lb. .74½- —
Pacific coast .....lb. .76½- —

Bonedry shellac sales of less than 1,500 lbs., at following additions to prices: (1) packed in bgs., ¾c. per lb.; (2) bbls., 1c. more; (3) kgs., 3c. more.

Superfine, 100 bgs., Boston, N. Y..lb. .64 - —
Chicago .....lb. .64½- —
Pacific coast .....lb. .67 - —
TN, 100 bgs., Boston, N. Y..lb. .62 - —
Chicago .....lb. .62½- —
Pacific coast .....lb. .64½- —

Shellac in cs., 2c. higher. Shellac sales 1 bg. or 1 cs., 5c. additional; 1 to 9 bgs. or cs., 2c. more; 10 to 99 bgs., cs., 1c. more.

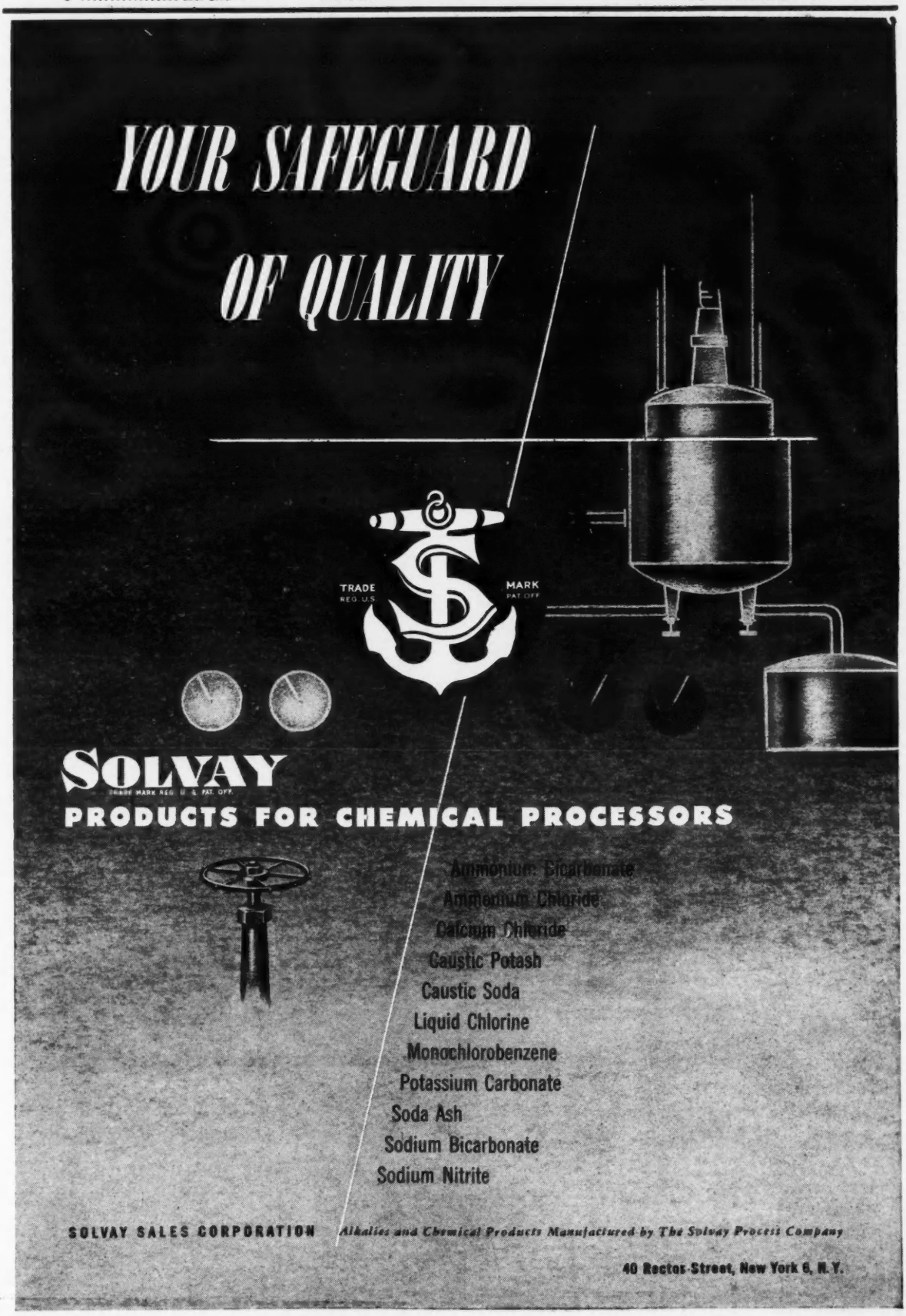
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works. ton.17.00 - —
l.c.l., works .....ton.20.00 - —
400 mesh, bgs., c.l., works. ton.18.00 - —
l.c.l., works .....ton.19.00 -30.00
wet-grd., 320 mesh, bgs., c.l., works..ton.18.00 - —
l.c.l., works .....ton.21.00 - —
400 mesh, bgs., c.l., works. ton.30.00 - —
l.c.l., works.....ton.35.00 -38.00
96-98%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works .....ton.21.50 -23.00
99%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works .....ton.22.00 -25.00
hard-quartz, 99¼%, 325 mesh, bgs., c.l., works..ton.18.50 - —
l.c.l., works .....ton.18.50 - —
140 mesh, bgs., c.l., works.. ton.11.00 - —
l.c.l., works .....ton.16.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15¼- —
l.c.l., works .....lb. .16½- .27
Silver, bullion.....oz. .71¾- —
Cyanide, cns., 100 ozs.....oz. .75¾- —
Nitrate, 250-oz. bots., 2,500-oz. lots..oz. .49¾- —
1,000-oz. lots .....oz. .49¾- —
500-oz. lots .....oz. .50¼- —
single 250-oz. lots.....oz. .50¾- —
Neucleinate, USP, bots. dms., 1,000-oz. lots..oz. .45 - —
Proteinate, USP, bots. dms., 1,000-oz. lots..oz. .40 - —
Simarubra bark, bls .....lb. .57 - .58
Skullcap, Eastern, bls.....lb. .35 Nom.
Western, bls.....lb. .30 - .35
Skunk cabbage root, bls.....lb. .45 - .50
Slate flour, bgs., c.l., works.ton.11.00 -12.00
l.c.l., ex whse. .....ton.20.00 - —

Sloe berries, bgs. .....lb. .39 - .40
Smalt, black, ctns. .....lb. .05 - .06
Blue, ctns. .....lb. .07 - .08½
Snakeroot, Canada, bls.....lb. .63 - .65
Soapbark, bls. .....lb. .27 - .28
crushed, bls., bbls.....lb. .32 - .33
cut, imp., bbls. .....lb. .32 - .33
powd., bbls. .....lb. .30 - .31
Soda acetate, anhyd., dms., dlvd. lb. .06½- .10
cryst., NF, bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd....lb. .06½- .06
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60
Alkylbensene sulphate, dms., works..lb. .13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.50 - 8.00
Antimoniate, bbls., dlvd.....lb. .10 - .16½
Arsenate, dealers, dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13½- .13¾
Arsenite, grey, dms., dealers, c.l., works..lb. .10¾- —
l.c.l., works.....lb. .13¼- .13¾
Soda arsenite, gray ¾c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.
Ash, dense, 58%, bgs., c.l.... 100 lbs. 1.28 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.63 - —
2 .....100 lbs. 2.78 - —
3 .....100 lbs. 3.13 - —
4 .....100 lbs. 3.73 - —
Soda ash, dense, 58%, bbls., c.l., works, zone 1..100 lbs. 1.68 - —
l.c.l., zone 1.....100 lbs. 3.03 - —
2 .....100 lbs. 3.18 - —
3 .....100 lbs. 3.53 - —
4 .....100 lbs. 4.13 - —
bulk, c.l., works..100 lbs. 1.08 - —
extra light, 58%, bgs., c.l.,.. 100 lbs. 1.30 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.65 - —
2 .....100 lbs. 2.80 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
light, 58%, bgs., c.l., zone 1. 100 lbs. 1.20 - —
l.c.l., dlvd., Zone 1..... 100 lbs. 2.55 - —
2 .....100 lbs. 2.70 - —
3 .....100 lbs. 3.05 - —
4 .....100 lbs. 3.65 - —
bbls., c.l., works..100 lbs. 1.60 - —
l.c.l., dlvd., Zone 1.. 100 lbs. 2.95 - —
2 .....100 lbs. 3.10 - —
3 .....100 lbs. 3.45 - —
4 .....100 lbs. 4.05 - —
bulk, c.l. .....100 lbs. 1.00 - —

Prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.

Soda ash sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county rates; Davenport, Ia., and St. Louis; (2) Ark., E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kans., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Soda benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons or more, lb. .46 - —
smaller lots.....lb. .47 - .52
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l. .....100 lbs. 2.67½- 2.89
Bichromate, bgs., c.l., works.lb. .06¼- —
l.c.l., works.....lb. .06¾- .08¾
Soda bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. .11¼- —
l.c.l., same basis.....lb. .13 - .14
kgs., same basis.....lb. .12¾- .14
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.25
l.c.l., works.....100 lbs. 3.50 - 3.60
solut., 32°, bbls., c.l., works. 100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.55 - —
35°, bbls., c.l., works.. 100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.65 - —
40°, bbls., c.l., works.100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 500 lbs., works..lb. .25 - —
dms., works.....lb. .25 - .26
Cacodylate, bots., dms.....lb. 8.50 -12.00
Carbonate (see Soda ash, Soda monohydrate, Soda sal).
Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 2.90 - 3.00
l.c.l., zone 1, dlvd..100 lbs. 4.25 - —
2, dlvd.....100 lbs. 4.40 - —
3, dlvd.....100 lbs. 4.75 - —
4, dlvd.....100 lbs. 5.35 - —
liquid, 50%, buyers' tanks, works, dry basis..100 lbs. 2.00 - —
sellers, tanks, works, dry basis..100 lbs. 2.10 - —
70%, sellers' tanks, works, dry basis..100 lbs. 2.10 - —



Soda caustic, 76%, dms., c.l., works..100 lbs. 2.50 - 2.75
l.c.l., zone 1, dlvd..100 lbs. 3.85 - —
2, dlvd.....100 lbs. 4.00 - —
3, dlvd.....100 lbs. 4.35 - —
4, dlvd.....100 lbs. 4.95 - —
Prices f.o.b. stock points in zones indicated Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.
Caustic soda zones are same as soda ash
Chlorate, cryst., bgs., c.l., works..lb. .06¼- —
l.c.l., works.....lb. .06½- —
powd., kgs., c.l., works....lb. .06½- —
l.c.l., works.....lb. .07 - .06½
Chloride (see Salt).
Chromate, bgs., c.l., works, frt. equald..lb. .09½- —
l.c.l., works, frt. equald..lb. .09¾- .10
Soda chromate in bbls., ¼c. higher.
Citrate, USP VIII, bbls.....lb. .18½- —
dms.....lb. .19½- .22½
USP XII, gran., bbls.....lb. .24 - —
dms.....lb. .25 - .29
powd., bbls.....lb. .24½- —
dms.....lb. .25½- .29½
Cyanide, 96-96%, dms.....lb. .14½- .15
Diacetate, 38-35% acidity, bbls., works, dlvd..lb. .09½- .10½
anhydrous, dms., works....lb. .11½- .13
Fluoride, white, 90%, bbls., c.l., works..lb. .09½- —
l.c.l., works.....lb. .09¾- —
95%, bbls., c.l., works...lb. .09¾- —
l.c.l., works.....lb. .10 - —
Soda fluoride prices at Los Angeles are f.a.s. works.
Formate, bgs., c.l., works...lb. .0605- .065
l.c.l.....lb. .07 - .079c
Glutamate, monobasic, kgs..lb. 1.46 - 1.48

Soda glycerophosphate, NF, cryst., bbls..lb. 1.90 - —
powder, bbls.....lb. 1.95 - —
solution, 75%, cbys.....lb. 1.10 - —
50%, cbys.....lb. .85 - —
Hydrosulphite, dms., c.l., frt. alld..lb. .18½- .19
l.c.l., frt. alld.....lb. .19 - .20
Hydroxide, USP, sticks, dms.lb. .24 - .29
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, cryst., bgs., c.l., works, frt. equald.....
100 lbs. 2.75 - —
l.c.l., same basis..100 lbs. 3.15 - —
pea, cryst., bgs., wks.100 lbs. 4.30 - 5.25
Soda, hyposulphite, crystals, in bbls., 40c. higher; pea crystals, dms., 50c. higher.
USP, cryst., bbls.....lb. .10 - .12
Iodide, dms., jars.....lb. 2.72 - 2.83
Mandelate, dms.....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works..ton.90.50 - —
ton lots, works.....ton.108.00 - —
less ton lots, works..ton.113.00 -
Ammonia metaborate in bbls., $20 per ton higher.
Metanilate, bgs.....lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.60 - —
gran., bgs., c.l., works.....
100 lbs. 3.90 - —
l.c.l., New York..100 lbs. 3.90 - 4.25
bbls., c.l., works...100 lbs. 3.40 - —
l.c.l., New York...100 lbs. 4.30 - 4.75
Methylate, bots., works.....lb. 1.00 - —
cns., works.....lb. .55 - .60
dms., works.....lb. .45 - .60
Molybdate, anhyd., kgs., works.lb. .47 - —
crystals, bgs., works.....lb. .60

Soda monohydrate, bgs., c.l.....
100 lbs. 2.00 - —
works .....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. .46 - .55
Nitrate, dom., crude, 100-lb. bgs., c.l., works..ton.35.50 - —
bulk, c.l., works.....ton.32.00 - —
refd., gran., bbls., 10 tons..
100 lbs. — - —
smaller lots.....100 lbs. — - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.41.50 - —
bulk, same basis.....ton.38.50 - —
Nitrite, 96-98%, bbls., c.l., works, frt. equald..lb. .06¾- —
West coast, ports.100 lbs. 8.00 - 8.00
l.c.l., dlvd.....100 lbs. 8.90 -11.00
Orthosilicate, anhyd., bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis.100 lbs. 5.45 - 5.80
flake, lbs., c.l., works.100 lbs. 5.10 - —
l.c.l., dlvd.....100 lbs. 4.30 - 4.55
Oxalate, neut., bgs., works..lb. .10 - —
Pantothenate, dextrorotary, 100-gram bots..per gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., works, frt. equald..lb. .16 - .16½
l.c.l., works, frt. equald.lb. .17 - —
kgs., l.c.l., works, frt. equald. lb. .19 - —
Perborate, NF, bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .14 - —
smaller lots .....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works..
100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works..
100 lbs. 3.50 - —
l.c.l., works....100 lbs. 3.75 - 3.90
USP XII, dried, bbls., dms., works. lb. .159 - —

Soda phosphate, monobasic, anhydrous, bgs., works....
100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald.100 lbs. 7.00 - —
l.c.l., same basis.100 lbs. 7.50 - 8.00
cryst., bgs., c.l., works....
100 lbs. 3.50 - —
l.c.l., same basis.100 lbs. 3.90 - —
kgs., c.l., works...100 lbs. 4.20 - —
l.c.l., works....100 lbs. 4.40 - —
Soda phosphate in bbls. 40c. higher. USP (see Sodium phosphate, dibasic).
Prussiate, yellow, bgs.....lb. .12 - —
bbls.....lb. .12¾- —
Pyrophosphate, acid, bgs., works, frt. equald..100 lbs.10.00 -11.85
ferric, dms., 10,000 lbs., works..lb. .23 - —
smaller lots, works.....lb. .22½- —
tetrabasic, anhydrous, bgs., c.l., works, frt. equald. 100 lbs. 8.00 - —
Ricinoleate, tech., bbls.....lb. No stocks.
Sal, bgs., c.l. .....100 lbs. 1.35 - —
works, c.l. .....100 lbs. 1.10 - —
bbls., c.l. .....100 lbs. 1.40 - —
works, c.l. .....100 lbs. 1.20 - —
Salicylate, dms. .....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works..100 lbs. 1.50 - —
bbls., c.l., works....100 lbs. 1.70 - —
l.c.l., zone 1, dlvd..100 lbs. 2.70 - —
2, dlvd. .....100 lbs. 2.85 - —
3, dlvd. .....100 lbs. 3.10 - —
4, dlvd. .....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., dlvd. .....100 lbs. 5.15 - 5.30
Silicate, 40°, turbid., dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works.....100 lbs. 1.20 - 1.30
tanks, works .....ton.15.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.55 —
l.c.l., works.....100 lbs. 1.80 - 2.00
tanks, works .....ton.27.00 - —
Silicofluoride, bbls., c.l., works. lb. .07½- —
l.c.l., works .....lb. .08½- —
Stannate, dms., works, frt. alld. E..lb. .43½- .47½
Stearate, bbls., works.....lb. .19 - .24
Sulphate, NF, dried, powd., bbls..lb. .10 - .10½
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls...lb. .07 - .07½
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., dlvd. .....100 lbs. 3.65 - 3.90
solid, bbls., c.l., wks.100 lbs. 3.95 - —
l.c.l., dlvd.....100 lbs. 4.15 - 4.50
Sulphite, cryst., bgs., c.l., works..100 lbs. 2.60 - —
l.c.l., works.....100 lbs. 3.00 - —
bbls., c.l., works.....100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 3.40 - —
powd., bbls., c.l., works, 100 lbs. 3.25 - —
l.c.l., works .....100 lbs. 3.50 - 3.60
Sulphocarbolate, USP IX, gran., bbls., dms..lb. .28 - .33
powd., bbls.....lb. .30 - .35
Sulphocyanide, CP, dms....lb. .55 - .65
Sulphohydrate, flake, 70-72%, dms., c.l..lb. .05 - —
l.c.l. .....lb. .05½- —
liquid, 38%, tanks, basis 100%, works..lb. .04 - —
Sulphoxylate, formaldehyde, dms., c.l., works, frt. alld..lb. .17½- —
Sulphoricinoleate, bbls. ....lb. .12 - —
Thiocyanate (see Soda, sulphocyanide).
Tripolyphosphate, bgs., works, frt. equald..lb. .07¼- .08½
Thiosulphate (see Soda hyposulphite).
Tungstate, tech., bgs.....lb. 1.45 - —
Soda-ammonia phosphate, bbls., works, frt. equald..lb. .28 - —
Soda-cinchophen, bots., dms., works..lb. 5.00 - 5.10
Soda-formaldehyde sulphoxalate, stand. cont., 125-250 lbs..lb. .19 - .22
Soda-sulphadiazin, USP, dms., works..lb.10.50 -10.60
Soda-sulphamerazin, dms., works. lb.10.50 -10.60
Soda-sulphapyridin, powd., bots., dms., works..lb. 5.00 - 5.15
Soda-sulphathiazole, USP, dms., works..lb. 3.00 - 3.15
Solvent naphtha, dms., wks..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .28 - —
Minnequa, Colo.....gal. .22 - —
high-flash, dms., works....gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. to 3¼c. per gal..gal. .27 - —
Sorbitol, com'l, dms., c.l., works. lb. .25½- —
l.c.l., works.....lb. .26 - .35
Soybean protein, alpha, bgs., 40,000 lbs., works..lb. .28 - —
20,000 lbs., works.....lb. .28¼- —
smaller lots, works...lb. .28½- .32
Sparteine sulphate, bots., cns.oz. 2.95 - 3.25
Spearmint leaves, bls.....lb. .52 - .53
Spikenard root, bls.....lb. .50 - .55
Spruce extract, liq., reg., tanks, works .lb. .01¾- —
pwd., super, bgs., c.l., wks.lb. .05¼- —
Squaw vine, bls.....lb. .53 - .55
Squill, red, fortified, powd., bbls., bxs..lb. 1.60 - —
White, bls.....lb. .10 - .13
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks
St. John's bread, edible, bls..lb. .12 - .13
Starch., corn, pearl, bgs., c.l.....
100 lbs. 4.09 - —
l.c.l. .....100 lbs. 5.12 - —
Chicago, c.l. .....100 lbs. 4.52 - —
powd., bgs., c.l.....100 lbs. 5.08 - —
l.c.l. .....100 lbs. 5.23 - —
Chicago, c.l. .....100 lbs. 4.63 - —
Cornstarch prices above are for paper bags; cotton bags are 20c. higher.
Potato, bgs., c.l.....lb. .08¾- .09
l.c.l. .....lb. .09¾- —
Rice, bgs., c.l..... .....lb. No stocks
Sweetpotato, bgs.....lb. No stocks
Wheat, bgs.....lb. .0560- .0630
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .45 - .50
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .20 - .25
Seed, bgs.....lb. .20 - .21
Streptomycin, hospitals.....gram. 4.00 - —
wholesalers .....gram. 3.20 - —
Strontium bromide, NF, cns., dms..cs. .50 - .55
Carbonate, 90%, bbls.....lb. .14 - .16
98%, bbls... .....lb. .23 - .25
Chloride, tech., bbls.....lb. .22 - .24
mesh 90%, bbls., works.ton.58.00 - —
Chromate, bbls., kgs., Phila.lb. .40 - .42
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35

CALLS FOR CAUSTIC SODA KEEP US BUZZING

Seems as if *everybody* wants Caustic Soda these days! The *soap* industry continues to order huge quantities of it . . . as more and more uses are developed for this bathroom necessity. Soap plays an important part in the production of synthetic rubber tires. From glycerin—formed in soap's manufacture—come dynamite and nitroglycerin, standbys in mining and road-building. Caustic Soda is also making great contributions to the development of the *rayon* industry. Because of it, fabrics are finer and stronger of texture. Caustic Soda is of benefit in the manufacture of materials used in rugs, draperies, automobile upholstery and tire cord. It enters—directly or indirectly—into the making of pulp and paper, petroleum products, many industrial chemicals. All these demands for Caustic Soda in addition to the increasing requirements from expanding industry—have made it impossible to supply the total demand. Although our production facilities are operating at capacity, we are allocating all our Caustic Soda to our old customers. Fairness requires us to do what we can to meet their needs first. Meanwhile, we are doing everything possible to increase our production of Wyandotte Caustic Soda. And we anticipate the day when we shall be able to tell every user of this chemical: "Sure, we have *plenty* of Caustic Soda.

How much do you want?"

WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES

Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Carbonate • Calcium Chloride • Chlorine Hydrogen • Sodium Zincates • Aromatic Intermediates • Dry Ice • Other Organic and Inorganic Chemicals

Wyandotte
REG. U. S. PAT. OFF.

Strontium nitrate, bbls., c.l., works..lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, nat., air-floated, 325 mesh, 90%, bbls., works.ton.58.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works..lb. 2.50 - 2.85
Strophanthin, bots.....oz.30.00 -50.00
Strophanthus seed, Kombe, bgs. lb. 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs..oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.00 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .50 - —
tech., bbls., l.c.l., works..lb. .45 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazine, USP, dms., works. lb. 9.00 - 9.10
Sulphaguanidin, dms., works..lb. 4.50 - 4.60
Sulphamerazin, dms., works..lb. 9.00 - 9.10
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphapyridin, powd., bots., tins, works..lb. 5.00 - 5.15
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.15
Sulphonethylmethane, kgs.....lb. 6.75 - 6.85
Sulphonmethane, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 - —
vessels, Gulf ports, contract..long tons.17.50 - —
export .....long ton.20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.15 - —
precipitated, USP, bbls., kgs.lb. .18 - .50
Sulphur, refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
heavy, bags., c.l., works.... 100 lbs. 2.85 - —
l.c.l., works.....100 lbs. 3.20 - 3.60
light, bgs., c.l., works.... 100 lbs. 2.95 - —
l.c.l., works.....100 lbs. 3.30 - 3.60
flowers, USP, bgs., c.l., works. 100 lbs. 3.30 - —
l.c.l., works.....100 lbs. 3.65 - —
Refined sulphur flowers in bbls., 85c. higher.
rock bbls., c.l., works..100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.80 - —
roll, bbls., c.l., works..100 lbs. 2.65 - —
l.c.l., works.....100 lbs. 3.00 - 3.40
rubbermakers' bgs., c.l., wks. 100 lbs. 2.15 - 2.60
Sulphur chloride, 25-gal., dms., c.l., works..lb. .03 - .03¼
l.c.l., works .....lb. .04 - .04½
10-gal. dms., c.l., works..lb. .07 - .07½
l.c.l., works.....lb. .08 - .08½
Dioxide, liquid, com'l, cyls., c.l., works..lb. .085 - —
l.c.l .....lb. .095 - —
multi-unit cars, works..lb. .06 - —
tanks, works .....lb. .044 - —
refrigeration, cyls., l.c.l., works..lb. — - —
Iodide, bots, jars.....lb. 3.90 - 4.11
Sumac Bark, grd., ex dock..ton.105.00 - —
Extract, No. 1, bbls.....lb. .10¼- —
No. 2, bbls.....lb. .09 - —
crystals, bbls. .....lb. .40 - —
stainless, bbls. .....lb. .11 - .13½
Leaves, ex dock.....ton.105.00 - —
Superphosphate, pulverized, run-of-pile under 22% a.p.a. Balto..unit-ton. .74 - —
Florida .....unit-ton. .56 - .59
others .....unit-ton. .57 - .89
Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 80¢c., per unit-ton plus frt. charges from Anaconda, Mont., in excess of $8.08 per ton; guaranteed 18, 19 or 20% a.p.a., ½c. per unit-ton higher.
triple, 40% or more a.p.a., bulk, producing point, Florida, unit-ton. .71 - —
South Carolina..unit-ton. .75 - —
Tennessee .....unit-ton. .80 - —
Other States and D.C., 7½c. per unit ton plus frt. charges for 47% from E. Tampa, Fla.
Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.10 - 1.35

T

Talc, dom., ordinary, grd., bgs., c.l., works..ton.14.50 -24.50
l.c.l., works.....ton.16.50 -30.00
Calif., bgs., c.l., wks..ton.22.00 -30.00
Pennsylvania, bgs., c.l., works..ton.11.00 -13.50
l.c.l., works .....ton.12.00 -14.50
Vermont, bgs., c.l., works, ton.14.00 - —
l.c.l., works .....ton.17.50 - —
New York, bgs., works..ton.18.00 - —
fibrous, grd., off-color, New York, bgs., c.l., works, ton.15.00 - —
325 mesh, 93-94%, bgs., c.l., works..ton.17.50 -18.00
99.85-99.95%, bgs., c.l., works..ton. No prices.
98-99.5%, bgs., c.l., works, ton. No prices
imp., Canada, bgs., c.l.....ton.35.00 -45.00
Tallow, inedible, extra, loose..lb. .14¾- —
fancy, loose .....lb. .14⅝- —
special, loose .....lb. .15 - —
sulphonated, 25%, dms.....lb. .07¾- .08
50%, dms. .....lb. .10¾- .11
Tamarind, bbls. .....lb. .12 - .12½
Tankage, animal, feed grade, 9-11% ammon., bulk, unit-ton. 7.00 - —
Chicago .....unit-ton. 7.00 - —
fert. grade, 9% ammon., 10% b.p.l., bulk..unit-ton. No stocks.
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. No stocks.
Tansy leaves, bls.....lb. .15 - .16
Tapioca flour, Brazilian, bgs..lb. .07¾- .12½
Java, bgs. .....lb. No stocks.
Tar acid, oil, 15-18%, ret. dms., c.l., works..gal. .35 - —
l.c.l., works .....gal. .38 - —
25%, dms., c.l., works..gal. .41 - —
l.c.l., works.....gal. .44 - —
Tar, pine (see Pinetar).
Tara pods, c.l., ex dock U. S. ports..long ton. No prices.
powd., c.l., same basis.long ton.225.00 - —
Tarragon herb, bgs.....lb. .60 - .65
Leaves, bgs. .....lb. 1.20 - 1.25
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .41 - —
dms. .....lb. .41½- .44
USP, powd., bbls., dms., kgs. lb. .45 - .48
Terpin hydrate, com'l, bbls., c.l., lb. .24½- —
l.c.l. .....lb. .25 - .25½
USP, cryst., bbls., dms...lb. .70 - .75
powd., bbls., dms.....lb. .75 - .80
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South .....lb. .14 - —
tanks, South .....lb. .13 - —
pure, dms. .....lb. .36 - .50
extra, dms.....lb. .63 - .70
Terpinglycol ether, dms. (extra), c.l., works..lb. .19½- —
l.c.l., works .....lb. .20 - —
tanks, works .....lb. .19 - —
Terpinyl acetate, extra, cns., dms. lb. .80 - 1.26
prime, cns., dms.....lb. .70 - 1.08
Terra alba (see Gypsum).
Tetrachloroethane, dms., works, lb. .08 - .08½
Tetrachloroethylene, NF VI 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works..lb. .65 - —
Tetrapotassium phosphate (see Potash phosphate).
Tetrasodium pyrophosphate (see Soda pyrophosphate).
Thallium sulphate, 99%, bots., works..lb.20.00 - —
Theobromine, dms., 25-lb. lots.lb. 3.75 - —
smaller lots.....lb. 3.95 - 4.10
Thiamine hydrochloride, dms., 100 grams or more..kilo.160.00 - —
Thiocarbanilide, dms. .....lb. .24 - —
Thiouracil, dms., works.....lb. 5.50 - 5.60
Thiourea, CP, dms.....lb. .55 - .56
Thorium nitrate, cs., works..lb. 2.00 - —
Thyme, French, bgs.....lb. .16 - .16⅓
futures, bgs. .....lb. .15½- .16
Spanish, bls. .....lb. .11¾- .12¼
Thymol, NF, cns.....lb. No prices
Iodide, NF, dms.....lb. 4.25 - —
Timbo root (see Cube root).
Tin crystals, bgs., bbls., works. lb. .55 - .60
Metal .....lb. .80 - —
Bolivian .....lb. .80 - —
Straits .....lb. .80 - —
Oxide, bbls.....lb. .82 - —
Tin, tetrachloride, anhydr., dms., works..lb. No stocks
Titanium dioxide, anatase, chalk resistant, bgs., c.l., dlvd..lb. .16½- —
l.c.l., dlvd. .....lb. .17½- —
rutile, nonchalking, bgs., c.l., dlvd., E..lb. .18½- —
l.c.l., dlvd. .....lb. .19½- —
plain, bgs., c.l., dlvd.....lb. .16½- —
l.c.l., dlvd. .....lb. .17½- —
Hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .06½- —
l.c.l., dlvd. .....lb. .07 - —
Calcium base, bgs., c.l., dlvd. lb. .06¼- —
l.c.l., dlvd. .....lb. .06¾- —
Calcium-rutile base, bgs., c.l., dlvd..lb. .06¼- —
l.c.l., dlvd. .....lb. .06¾- .06⅝
Magnesium base, c.l., dlvd.lb. No prices
l.c.l., dlvd. .....lb. No prices
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ½c. higher.
Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller pkgs., works....lb. .65 - 1.22
technical, 55-gal. dms., works lb. .82 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.45 - 3.65
Toluol (toluene) 2°, indust., ret. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo...gal. .23 - —
Prices on toluol from petroleum, tanks delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Chicago, 23c. (2¾c.); Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 6/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 25c. (5c.); Pa., 23c. (2¾c.); S. C., 26c. (6c.); Tenn., 23c. (3¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.).
1°, nitration, ret. dms., works. gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo...gal. .23 - —
Toluene (see Toluol).
Toluidin base, distilled, kgs...lb. 1.00 - —
Tonga, 50% bark and vine, bbls. lb. .90 - .91
Tonka beans, Angostura, cks..lb. 1.70 - 1.80
Brazilian, Surinam, cs.....lb. .85 - .90
Totaquine, USP XII, 100-oz lots. oz. .52 - —
Triacetin, dms., works.....lb. .26 - —
Triamylamine, dms., c.l., works. lb. .98 - —
l.c.l. .....lb. 1.01 - —
Tributyl citrate, dms.....lb. .41 - .49
smaller pkgs.....lb. .52 - —
Phosphate, dms., l.c.l., frt. alld. E. of Rockies..lb. .72 - —
Tributylamine, dms., c.l., works lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorobenzene, dms., c.l., wks. lb. .11 - —
l.c.l., frt. alld.....lb. .12 - —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —

THE PIONEER CREED
Always New, Always Better

Since the turn of the century Niagara has pioneered basic electro-chemical development in this country. This experience is reflected not only in Niagara product quality but also in the efficiency of the service that Niagara extends to customers seeking to blaze new trails to product improvement.

milestones of progress . . .

LIKE THE MILESTONES that marked the distances along the old colonial post roads and turnpikes, the discoveries of pioneer chemists mark the course of progress in many industrial fields. Long a pioneer in the development of electro-chemical products, Niagara has directed progress in various industries through the production, for the first time in this country, of such important materials as liquid chlorine, caustic potash, carbonate of potash and the steady improvement of other products of this type. The advantages of many years of experience can be of substantial value to you in obtaining economical and satisfactory results from the use of electro-chemical products. Niagara Alkali Company, 60 East 42nd Street, New York 17, N. Y.

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Niagara Alkali Company

LIQUID CHLORINE · CAUSTIC POTASH
CARBONATE OF POTASH · PARADICHLOROBENZENE
CAUSTIC SODA · NIAGATHAL (TETRACHLORO PHTHALIC ANHYDRIDE)

Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .06 - —
Zone 2, frt. alld.....lb. .06½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —

Trichloroethylene, l.c.l. prices ½c. higher: Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. V., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, coaltar base, dms., c.l., divd..lb. .33 - —
l.c.l., divd.....lb. .33½- —
tanks, divd.....lb. .32 - —
petroleum base, dms., c.l., divd..lb. .37 - —
l.c.l., same basis.....lb. .37½- —
tanks, same basis.....lb. .36 - —
Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18½- —
Triethyl phosphate, cns.....lb. .40 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%..lb. .36 - —
tanks, works, basis 100%....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .18½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —
Trimethylamine, anhydrous, cyl., works, frt. alld. E. of Miss., 100% basis..lb. .35 - —
solution, dms., c.l., frt. alld. E. of Miss., 100% basis..lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .26 - —
l.c.l., same basis.....lb. .27 - —
Tripoli, air-floated, bgs., c.l., works..ton.21.50 - —
double-grd., bgs., c.l., works.. ton.17.50 - —
once-grd., bgs., c.l., works.ton.16.00 - —

Trisodium phosphate (see Soda phosphate tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99.9+%, dms., works..lb. 2.85 Nom.
Oxide kgs., same basis.....lb. 4.75 Nom.
Turmeric root, Alleppey, bls., futures..lb. .21 - .22
powd., bbls. .....lb. .27½- .28
Haitian, bls.....lb. .15½- .16
Jamaica, futures, bls.....lb. .15 - .15½
Madras, bgs. .....lb. .18 - .18½
Turpentine, gum (see Naval Stores, Protective Coatings market).
wood, d.d., dms., extra, l.c.l., works, South..gal. .79 - —
l.c.l., same basis.....gal. .80 - —
tanks, wks., South.....gal. .70 - —
steam-dist., l.c.l., dms., incl., East..gal. .96 - —
tanks, South .....gal. .75 - —
Sulphate, ret. dms., East..gal. .90 - 1.00

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium, oxide, black, bgs..lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 40% N., bgs., c.l., works or ship. pts..ton.73.00 - —
l.c.l., ship. pts.....ton.75.50 -80.50
fertilizer comp., 42% N., bulk c.l., works or Atlantic or Gulf ports..ton.57.40 - —
fixed ammonia content, usual Atlantic and Gulf ports, NH_3..ton.116.80 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.59.00 - —
Urea-ammonia liquor, fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., NH_3 ton.112.80 - —

C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Uva ursi leaves, bls.....lb. .15 - .16

V

Valerian root, Belgian, NF, bls. lb. .56 - .58
Indian, bls. .....lb. .42 - .52
Valonia, beards, bgs., ex dock, ton.68.00 -70.00
Cups, bgs., ex dock.....ton.55.00 -56.00
Extract, powder, bgs., ex dock, lb. .11825- —
Vanadium pentoxide, CP, bgs., cns, works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 7.75 - 8.50
Mexican, cuts, tins.....lb. 9.50 -10.00
whole, tins.....lb.10.50 11.00
Tahiti, tins .....lb. 4.00 - 4.25
Vanilla, ex eugenol, tins, 25 lbs. or more..lb. 4.50 - —
smaller lots, tins.....lb. 4.85 - 4.65
ex guaicol, tins, 25 lbs. or more. lb. 3.00 - —
smaller lots tins.....lb. 3.05 - 3.15
ex lignin, tins, 25 lbs. or more, lb. 3.00 - —
smaller lots tins.....lb. 3.05 - 3.15
Venice turpentine, artif., cns..lb. .24 - .25
Verdigris, bbls., bgs.....lb. .22 - .23
Vinyl acetate, cbys., works....lb. .25 - —
dms., c.l., works.....lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works .....lb. .14 - —
Vinyl ether, bots., 75 c.c., less 20% and 20%..bot. 1.50 - —
50 c.c., same basis....bot. 1.05 - —
25 c.c., same basis....bot. .65 - —
Trichloride (see Trichloroethane).
Viosterol, bots., 100 billion USP units..mil. units. .04 - —
1 billion USP units.mil. units. .05 - —
100 million USP units..mil. units. .07 - —
Vinylpyridin, ret. dms., works.lb. 1.50 - —
Vitamin A (see Oils, codliver, fishliver)
A concentrate, dms., works.. mill. units. .40 - .45
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice Bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver, and fishliver, calciferol, and Viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol and oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo, root bark, bls.....lb. 2.00 Nom.
tree bark, bls.....lb. .45 - .50
Wattle bark, merchantable bags, f.a.s..ton.64.00 -65.00
fair average, bgs., f.a.s.. ton.66.00 -67.00
extract, liquid, 35% tannin, bbls., works..lb. .06 - .06¼
tanks, works .....lb. .05½- .05¾
solid, E. Afr., 61% tannin, in bond, ex dock..lb. .06¾- —
S. Afr., 62% tannin, ex dock, in bond..lb. .07 - —

Wattle extract prices based on $20 freight and $1.00 insurance per long ton.

Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs. .....lb. No stocks.
Bees, bleached, USP, white, bricks, cakes, cs..lb. .70 - .71
slabs, bgs.....lb. .69 - .71
crude, African, bgs.....lb. .57 - .58
Western hemisphere, bgs.lb. .57 - .58
refined, yellow, bricks, bgs.lb. .64 - .65
slabs, bgs.....lb. .62 - .63
Candelilla, crude, bgs.....lb. .76 - .77
refined, bgs. .....lb. .78 - .80

Powdered, candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, No. 3, bgs., ton lots..lb. 1.15 - 1.16
North Country, No. 2, bgs., ton lots..lb. 1.23 - 1.25
No. 3, bgs., ton lots.....lb. 1.15 - 1.16
refined, bgs., ton lots.....lb. 1.28 - 1.30
yellow, No. 1, bgs., ton lots, lb. 1.52 - 1.55
No. 2, bgs., ton lots.....lb. 1.50 - 1.52

Powdered carnauba prices, same differentials as powdered candelilla.

Ceresin, dom., 132°-136° m.p., bgs..lb. .16 - .16¼
138°-140° m.p., bgs.....lb. .18 - .18½
158°-162° m.p., bgs.....lb. .20½- .21
Japan, bgs. .....lb. .35 - .38
Microcrystalline, 170°-175° m.p., A.S.T.M., amber, ctns., 30 tons yearly contract, group 3, works..lb. .16 - —
smaller lots, same basis. lb. .16 - .17½
170°-175°, black, ctns., 30 tons, same basis..lb. .14½- —
smaller lots, same basis.lb. .14½- .15½
white, ctns., 80 tons, same basis..lb. .27 - —
smaller lots, same basis.. lb. .27 - .29
190°-195° m.p., ASTM, amber, ctns., 30 tons, same basis..lb. .18 - —
smaller lots, same basis. lb. .18 - .19
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis lb. .16½- —
smaller ctns., same basis. lb. .16½- .17½
white, ctns., 30 tons, same basis..lb. .31 - —
smaller lots, same basis. lb. .31 - .32
Montan, crude, bgs.....lb. .52 - .53
Ouricury, crude, bgs., ton lots. lb. .60 - .61
refined, bgs., ton lots.....lb. .64 - .65
Ozokerite, dom., 180-190 F., c.l. lb. .36 - —
182-184 F., bgs., c.l.....lb. .31 - —
182-183 F., bgs., c.l.....lb. .27 - —
Spermaceti, blocks, cs.....lb. .45 - .59
cakes, cs.....lb. .46 - .51
White lead (see Lead, white).
White, precipitate, powd., dms., 50 lbs. or more..lb. 2.27 - —
White pine bark, rossed, bls..lb. .21 - .25
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, works, St. Louis..ton. 9.50 - —
smaller lots, works, St. Louis..ton.12.50 - —
wet-grd., air-floated, 325 mesh, 90½%, bgs., c.l..ton.14.50 -27.50
200 mesh, 99¾%, bgs., c.l. ton. No prices
90%, bgs., c.l.....ton. No prices
water-floated, extra, gilders, bgs., c.l..ton.14.50 -28.00
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l..ton.13.00 - —
surface treated, bgs., c.l., Ohio, works..ton.30.00 - —
Paris, white, bgs., c.l.....ton.25.00 -31.00
l.c.l. .....ton.25.00 -29.00
precipitated, bgs., c.l.....ton.14.00 -15.00
l.c.l. .....ton.18.00 -20.00
Wild cherry bark, thick, bls..lb. .06 - .07
thin, natural, bgs.....lb. .18 - .20
rossed, green, bls.....lb. .24 - .26
Wild indigo root, bls.....lb. .38 - .40
Witch hazel leaves, bls.....lb. .23 - .30
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y..ton. No prices
60 mesh, same basis.....ton. No prices
80 mesh, same basis.....ton. No prices
100 mesh, same basis.....ton. No prices

Woodflour, in bags, 25c. each extra, returnable.

Wormseed, American, bgs....lb. .20 - .37
Levant, bgs.....lb. 4.25 - 4.80
Wormwood, bls.....lb. .50 - .80

AZO ZINC OXIDES

ACICULAR ZINC OXIDES

ARE AVAILABLE IN A WIDE RANGE OF OIL ABSORPTIONS

AZO ZZZ-33
A definitely Acicular type with a lower oil absorption, but chemically identical with AZO ZZZ-11 and AZO ZZZ-22.

AZO ZZZ-11
A medium oil absorption Acicular Zinc Oxide imparting exceptional weathering qualities to exterior paints.

AZO ZZZ-22
A high oil absorption Zinc Oxide having large Acicular Particles gives heavy body, meets Navy Spec. 52-Z-7.

The extra durability, the finer weathering qualities that Acicular Zinc Oxide gives to paint can be obtained with AZO Acicular Zinc Oxides available in a wide range of oil absorptions to meet your requirements.

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X

Xantherrhiza, bls.	lb.	.28	- .30
Xylidin, mixed, dms.	lb.	.38	- .38½
Xylene (see Xylol).			
Xylol (xylene), indust., ret. dms., works	gal.	.28	- —
tanks, E. of Omaha, frt. alld.	gal.	.23	- —
Xylol (xylene), industrial, tanks, West Minnequa, Colo.	gal.	.23	- —

Prices on xylol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 8/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 25c. (5c.); Pa., 23c. (2¾c.); S. C., 26c. (6c.); Tenn., 23c. (3¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.); the Chicago price is 20c. f.o.b. terminal.

10°, ret. dms., works	gal.	.30	- —
tanks, E. of Omaha, frt. alld.	gal.	.25	- —
5°, ret. dms., works	gal.	.31	- —
tanks, E. of Omaha, frt. alld.	gal.	.32	- —
3°, ret. dms., works	gal.	.42	- —
tanks, E. of Omaha, frt. alld.	gal.	.37	- —

Y

Yara yara, cryst., bots., cns.	lb.	1.62	- 1.75
Yeast, brewer's dry, 50 B units, dms.	lb	.35	- —
90 B units, dms.	lb.	.45	- —
200 B units, dms.	lb.	.50	- —
300 B units, dms.	lb.	.60	- —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul.	lb.	.32	- —

Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.

Benzidin, bbls., dlvd.	lb.	1.60	- —
Cadmium, lithopone, all shades, bbls., frt. alld. E. of Rockies.	lb.	.80	- .90

Los Angeles and San Francisco, ex whse. 1c. per lb. higher.

Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.	lb.	.24	- —

Chrome, CP, bbls., dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Dutch, pink, bbls.	lb.	.09	- .11
Hansa, bbls., same basis as chrome.	lb.	1.43	- —
primrose, bbls., same basis.	lb.	1.90	- —
Bethlehem, Easton, Pa.,	lb.	.04¼	- —
l.c.l., same basis	lb.	.06	- —
synthetic, bbls., c.l., works,	lb.	.07¼	- —
l.c.l., works	lb.	.07½	- —
Mercury oxide, bbls., 1,000 lbs.	lb.	2.23	- —
smaller lots	lb.	2.25	- —
Ocher, American, golden, bbls., works.	lb.	.04½	- .06¼
Iron oxide, nat., bbls., c.l., yellow, bgs., works	lb.	.02¾	- .03¾
French type, bgs., c.l.	lb.	.03¾	- —
l.c.l.	lb.	.04	- —
Persian orange (see O).			
Zinc, bbls., same basis as chrome.	lb.	.17½	- —
Navy spec. type bbls., contract.	lb.	.19	- —
Yellow dock root, bls.	lb.	.35	- .36
Yellow xanthorrhiza (see Xanthorrhiza).			
Yarba santa leaves, bls.	lb.	.32	- .35
Yohimbine hydrochloride, vis.	oz.	3.25	- 4.00

Z

Zein, bgs., 1,000 lbs., works		.25	- —
smaller lots, bgs.		.30	- —
Zinc acetate, tech., bbls., c.l.	lb.	.20	- —
USP, bbls.	lb.	.26	- .27
kgs.	lb.	.27	- .29
Arsenite bgs., c.l., frt. alld. E. of Rockies.	lb.	No stocks	
l.c.l., same basis	lb.	No stocks	
Carbonate, tech., rubbermakers' grade, bbls., works.	lb.	.09¾	- .10¼
USP, precip., powd., bbls.	lb.	.35	- —
dms.	lb.	.40	- —
kgs.	lb.	.37	- —
Chloride, tech., fused, dms., c.l., works.	100 lbs.	6.25	- —
l.c.l., works	100 lbs.	6.55	- —
gran., bbls., c.l., works	100 lbs.	7.00	- —
l.c.l., works	100 lbs.	7.40	- —
solution, 50%, dms., c.l., works.	lb.	.0365	- —
l.c.l., works	lb.	.0425	- —
tanks, works	lb.	.0300	- —
USP, dms.	lb.	.30	- .31
jars.	lb.	.35	- .36
Chromate (see Yellow, zinc).			
Cyanide, kgs., works	lb.	.34	- .36
Dust, bbls., c.l., dlvd.	lb.	.1250	- .1290
l.c.l.	lb.	.12¾	- .13
Fluoride, bbls., works	lb.	.18	- .19
Hydrosulphite, dms., works.	lb.	.16	- —
	lb.	.16	- —
Iodide, NF, jars	lb.	4.65	- —
Laurate, bbls.	lb.	.32	- .38
Metal (quotations in Protective Coatings market).			
Naphthenates, 8% Zn, liquid, dms.	lb.	.19¾	- —
10% Zn. liquid, dms.	lb.	.24	- —
14% Zn. solid, dms.	lb.	.31¾	- —
Oxide, pigment, dom., acicular, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.09½	- —
l.c.l., works	lb.	.09¾	- —
American process, com'l, lead-free, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.09½	- —
l.c.l., works	lb.	.09¾	- —
leaded, 5%, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.09½	- —
l.c.l., works	lb.	.09¾	- —
35% or more, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.11½	- —
l.c.l., works	lb.	.11¾	- —
50%, bgs., c.l., f.o.b. ship't point, frt. alld.,	lb.	.12¾	- —
l.c.l., works	lb.	.12¾	- —
Zinc oxide, pigment, French process, com'l, lead-free, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.11¾	- —
l.c.l., works	lb.	.12	- —
green seal, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.11¾	- —
l.c.l., works	lb.	.11½	- —
white seal, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.11¾	- —
l.c.l., works	lb.	.12	- —
red seal, bgs., c.l., f.o.b. ship't point, frt. alld.	lb.	.10¾	- —
l.c.l., works	lb.	.11	- —
USP, ctns., c.l., f.o.b. ship't point, frt. alld.	lb.	.12¾	- —

Zinc oxide Pac. Coast prices ½c. higher; bbls. prices ¼c. higher than bgs.

Resinate, fused, 9% Zn, powd., dms.	lb.	.19½	- —
Silicofluoride, bbls.	lb.	.15	- .16
Stearate, USP, ctns., 2,000 lbs. to c.l.	lb.	.50	- —
smaller lots	lb.	.51	- —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	4.15	- —
l.c.l., same basis	100 lbs.	4.90	- —
flake, 25½% Zn., bgs., c.l., same basis.	100 lbs.	4.80	- —
l.c.l., same basis	100 lbs.	5.55	- —
powd., 36% Zn., bgs., c.l., same basis.	100 lbs.	6.75	- —
l.c.l., same basis	100 lbs.	7.50	- —

Zinc sulphate in bbls., 40c. higher.

Sulphide, pure, bgs., c.l., dlvd.	lb.	.10	- —
l.c.l., works	lb.	.10¾	- —
Zinc sulphide, barium pigment, works, bgs., c.l., dlvd.	lb.	.07	- —
l.c.l., works	lb.	.07¼	- —
Calcium pigment, works, bgs., c.l., dlvd.	lb.	.07	- —
l.c.l., works	lb.	.07¼	- —
Fluorescent pigment, works, frt. alld.	lb.	1.00	- 3.00
Magnesium pigment, bgs., c.l., dlvd.	lb.	.07	- —
l.c.l., dlvd.	lb.	.07¼	- —

Zinc sulphide and pigment, Pac. coast prices ½c. higher; bbl. prices ¼c. higher than bgs.

Sulphocarbolate, NF, gran., bbls., dms.	lb.	.26	- .30
Sulphoxylate, formaldehyde, basic, dms., works, frt. alld.	lb.	.17	- —
normal, dms., works, frt. alld.	lb.	.35	- —

Yellow (see Yellow, zinc).

Zinc-ammonia chloride, bbls., c.l., works.	100 lbs.	7.15	- —
l.c.l., works	100 lbs.	7.55	- —
Zinc-cadmium sulphide, fluorescent, cns., works, frt. alld.	lb.	2.00	- 2.80
Zinc-iron oxide pigment, bgs., c.l., dlvd.	lb.	.07¾	- —
l.c.l., dlvd. E. of Rockies.	lb.	.08¼	- —
Pac. cst	lb.	.08¼	- —
ex whse., Pac. cst.	lb.	.08¾	- —
Zirconium acetate, solution, bbls., works	lb.	.25½	- —
Hydride, cns., works	lb.	7.00	- 8.00
Nitrate, bgs., works	lb.	3.00	- 4.00
Oxide, 85%, grd., bbls., c.l., works.	lb.	.22½	- —
l.c.l.	lb.	.22¾	- —
Zirconium oxide, white, 98½%-99%, grd., bgs., works.	lb.	.80	- —
milled, electric, fused, 2,000-9,999 lbs., works.	lb.	.46	- —
500 lbs. and less, same basis.	lb.	.46½	- .49
Oxychloride, cryst., bbls., 5 tons, works.	lb.	29¼	- —
Sulphate, basic, cake, bbls., c.l., works.	lb.	.18	- —
l.c.l., works	lb.	.18½	- .20
smaller lots, works.	lb.	.30	- .31½

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the May 5 issue of OPD.

Trade Briefs

Socony-Vacuum Oil Company, New York, has sold its bulk plant marine terminal at Charleston, S. C., to the Shell Oil Company, effective May 1.

Kentucky Standard Oil Company's president, W. G. Violette, has been appointed a colonel on the staff of Governor Simeon Willis, of Kentucky.

Gulf Refining Company last week awarded jeweled service emblems to sixteen employees in Louisville, Ky., who have periods of service ranging from ten to thirty years.

Highlights of 1900 Paint Progress

No. 4 of a series

THE TUNG OIL—ESTER GUM REVOLUTION

Around the turn of this century, tung oil and ester gum cooked up in varnish kettles a revolution as far-reaching in that art as was the adoption of zinc oxide in paint-making two generations previously.

Since the start of varnish-making in America in the early 1800's, linseed oil and hard fossil resins had been essential ingredients of quality products. The use of tung oil, which started in 1869, remained small due to its temperamental cooking properties.

By the beginning of the 20th Century, the supply of the harder fossil resins—Congo, East India, Kauri, Zanzibar—was diminishing and the price was spiraling upward. Then skilled varnish craftsmen, in search of new sources for raw materials, discovered how to control tung oil with the aid of lowly rosin to turn out quality varnishes. They obtained still better results by esterifying rosin with glycerine to produce ester gum—the first man-made varnish resin.

Tung oil-ester gum varnishes surpassed those of linseed oil and fossil resins for many uses as they were quicker drying, tougher, more resistant to water and weather, as well as less expensive. Also, grinding vehicles based on ester gum and tung oil (with or without linseed) made possible new types of paints and enamels which broadened the scope of the ready-mixed paint industry.

←Gathering "fruit" from tung trees.

←Carrying tung nuts to press mill.

Pouring tung oil into river oil barge. ↓

Transporting tung oil from press mill.

1848-1948

Partners in Paint Progress

In the early 1900's The New Jersey Zinc Company began the manufacture of lithopone—then in its infancy in America. That pigment was destined to play a vital role in the success of paints and enamels based on tung oil and ester gum vehicles.

The Paint Industry — New Jersey Zinc

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Directed 1900-1942, by Harry J. Schnell
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Volume 154 May 12, 1947 Number 19

Behind the Farben War Crimes

In the course of the proceedings of the war-crimes prosecution of the executive leaders of the I. G. Farbenindustrie, recently indicted in Nuremberg, will be unrolled a pattern that must ever be kept in mind and sight in any consideration of the industrial-commercial economic status which is to be permitted for the German people in the world that should be. The role of industrialists in other countries, whether chiefly determined by duress or greed, must be regarded as an inevitable concomitant. The German people cannot have strength, of any kind, without demanding power of every kind. That fact must be realized—it will be made unmistakably clear in the Farben prosecution—and the stern reality which it presents must be honestly and fearlessly met; neither profit motive nor political expediency, nor even the amenities of international patent understandings, must be permitted in any degree to prevail. The German people, whatever the dynasty by which they are at any time more or less temporarily and effectively governed, must be economically outlawed.

The German people have had no monopoly, no favoring proportion, of scientific, technologic, or commercial ability. Their power has come from their organization of the direction and utilization of what they had and by negation or other invalidation of the abilities and possibilities of others. They have pirated the attainments of other nationals, tied them up in the technicalities of others' patent laws, and beaten free competition with bludgeons of force and fear.

But, in the planned industrial-commercial complement of their social economy—planning which long antedated the Hitlerian symptoms of a national scheme—the German people have constructed a pattern that would be desirable and widely beneficial in more considerate hands. It must be known now and henceforth that an industrially-commercially potential German people will not be satisfied with a political status which they consider inferior—by their own criterions. As the potentially beneficial aspects unroll with the rest of the pattern so fully typified by the I. G. Farbenindustrie's way to power, which is the sole German concept of strength, their disentanglement from that national characteristic will be clear as the problem of the age.

Cutting the Cost of Government

Reduction of costs is a most commendable achievement, in business, as well as in government. In neither area is it an easy thing to do. It is more difficult in government, because there it is almost wholly a matter of manpower, which is always far more resistant than materials to any process of cheapening.

So, Congress has a big job in its, at least half-hearted, endeavors to bring the cost of the Federal government down to not more than 30 percent above its normal peacetime level. The cutting so far has not been especially commendable. The trouble is that Congress has the idea that it knows what government can best get along without doing. It fails miserably in that respect; for, never in a hundred years would it vote to dispense with unnecessary legislative orating, berating, and enacting or the ever-increasing undertaking by congressional individuals and groups of the gumshoe work of the Department of Justice and the deliberations of Federal grand juries.

Something has gone someway with the cost of government now that it costs more to run the City of New York than it cost to run the United States four decades ago. Nobody can argue that it is worth it. Nobody can show that the United States, as a nation or as a hundred-and-so million persons, is getting $200 or $300 worth of Federal governing a year for each man, woman, and child in it.

Congress knows, as well as anybody else, that government is costing too much. It does not know, any more than anyone else, why this is so or what makes it. So, in its admirable desire to economize, it cuts off a billion or so here and larger or smaller chunks elsewhere and hither and yon. These cuts stick according to the volume and portent of the howls with which they are respectively greeted.

The cost should be cut. Congress should nip a certain, carefully determined percentage off the budget as a whole. Put the details of what is to be reduced or eliminated in each department or other agency smack up to its head. If he can't meet the needs of the day, replace him with somebody who can.

Washington Talks It Over

—Continued from page 5

agents in Japan. Pricing and evaluation techniques, licensing criteria and procedures, and discussions as to commodities and areas as between private and government-to-government trading in the transition period will also fall within the mission's survey.

Those in the group, who will spend about a month in Japan at SCAP Headquarters, are Brig. Gen. George L. Eberle, and Lt. Col. Roland F. Hartman for the War Department; DeWitt C. Schieck, president of USCC; George B. Stoner for RFC; Dean O. Bowman for State; Thomas R. Wilson for Commerce; and Paul C. Parker for Treasury.

Weather-Conscious Industry

Applied climatology is a new science that is coming to be recognized as of major importance to the business community as a means of lessening the hazards of industrial operations caused by the elements. It is beginning now to get the attention of business associations who are making inquiries of the Weather Bureau for more information on the subject.

The science was developed to a point of relatively high accuracy during the war and as a result it is now believed that it can be of real benefit to the businessman by providing him with detailed information on how the different elements that make up the climate of his region affect various products. The value of such information dollarwise can be readily recognized when it is considered how destructive the elements can be when proper safeguards have not been taken against them.

The businessman can ascertain, for example, how the climate makes special demands on such products as paints, varnishes, plated metal surfaces, coated materials, roofing materials, lubricants. Also he can determine how the climate raises special problems in such fields as food storage, display of perishables, control of mold, etc.

The Weather Bureau is planning to give more and more attention to putting this newly developed science to use for business in the future. In anticipation of heavier demands on its long-range weather analysis, the bureau recently reorganized its department of climatology into four divisions to meet the needs of business and industry, agriculture, the merchant marine, and the commercial airlines.

Moth Extermination

The Army is looking for new and better ways to exterminate the moth and other insects that cause heavy damage to American stores every year. A research program, being conducted by the QMC, is starting at the beginning in the search for more effective insecticides and insect repellents. Naphthalene, which has wide use, does not measure up to military needs for this purpose.

Surveys and reports from military camps show that the Army has a serious problem in protecting stored food, and articles made of wood, paper, cotton, wool, and certain synthetic fibers from damage due to insect infestation. With the QMC research program, efforts will be made to improve the chemical and biological methods for the analysis of insecticidal and insect-deterrent compounds required for the control of production and for standardization of purity levels.

New Spray Effective

A two-in-one, or combination spray, that is now getting goods results in a mixture of one pound of DDT and three pounds of Fermate in 100 gallons of water. Used on tobacco seedbeds, the DDT takes care of the destructive flea beetles, while the Fermate is a control for the blue mold disease caused by a fungus, says the Department of Agriculture.

These two chemicals are "compatible" and work well together. They do not go into chemical combinations with each other. Some mixtures, chemists know at a glance, would be "incompatible." Others have to be tried out in practical experiment and in varying proportions. One of the good points of DDT, as developed by practical experience, is that it is compatible in many mixtures, both with insecticides and fungicides.

Extolling American Way

A big educational program to show the public the inter-workings of the national economy, why it is so much better than those in other lands and why it must be preserved and expanded, is about to hit the newspapers, radios and public gatherings. The National Chamber of Commerce, the American Association of Advertising Agencies and the Association of National Advertisers have been working on the program for months and now have the details in shape ready to be put in operation.

The broad objectives are to show what the American people have gained under their system and what it can provide in the future; counteract the view that management and labor are enemies, expand public understanding of the role of free collective bargaining, and show the interplay between economic and political freedom. A sample of information that will be emphasized is that the average American can earn a pair of shoes with six hours work—the average Russian thirty days, the average European twenty days. In 1900 it took the average American twenty-four hours' work to earn that same pair of shoes. In 1920, only twelve hours.

Business enterprises are to be urged to explain their operations through advertisements, annual meetings for stockholders and employees and "open house" gatherings for employees, neighbors and customers. The program goes by the title of the "American Opportunity."

Agricultural Program

Secretary of Agriculture Clinton Anderson testified recently before a congressional committee to give voice to his views on what is needed by agriculture from the standpoint of a long range program. Two main points stood out in his statement:—first that there should be no more of the regimenting of agriculture to curtail production so that prices will stay up. Agricultural production should be based on abundance rather than scarcities. The other point was that the war set agriculture way back in its program of intelligent farming, and this must be overcome.

In the corn belt alone, farmers altered their regular rotations to increase the annual acreage of tilled crops such as corn and soybeans by 11,000,000 acres—mostly at the expense of good sod and pasture. Wheat growers, mainly in the Great Plains, increased their crop acreages from 62,000,000 acres to 72,000,000 acres—mostly at the expense of grass and fallow. Parts of the range have suffered under increased numbers of cattle and greater crop acreages. For the country as a whole, it is estimated that at least half the acreage needed this year for intertilled and close-growing crops is subject to erosion.

Although during the war farmers increased their use of lime and phosphate and their use of various practices such as contour farming, strip cropping, and turning under green manure, he said, the solid requirements still call for double, five times, and even greater increases in use of these materials and practices.

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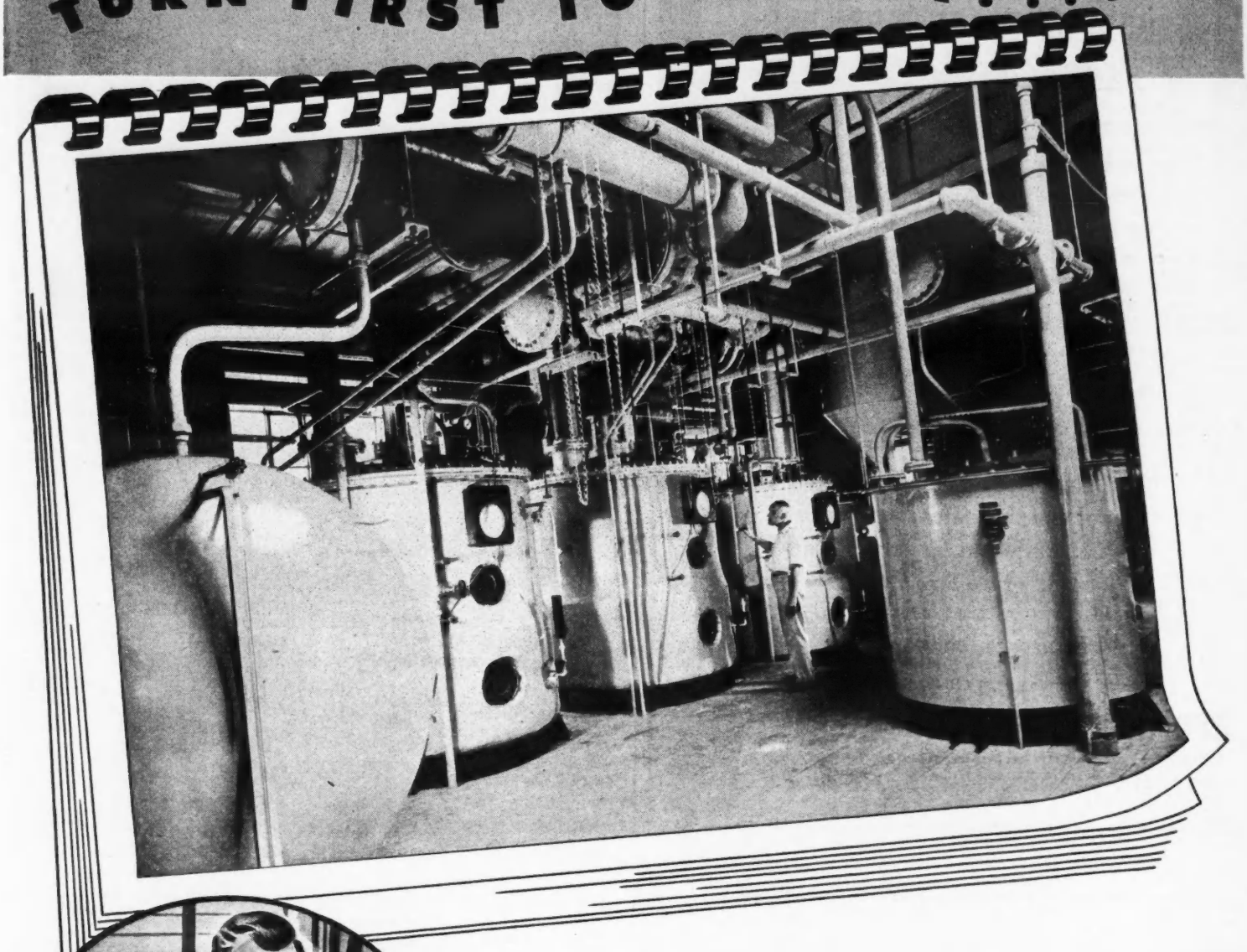

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Heavy Chemicals

While producers of soda ash and caustic soda have noted no appreciable falling off in demand for these chemicals or others associated with the soda classification, there has been irregularity in the inquiry from other directions. The conservatism recently noted appears to be increasing with a more distinct disposition to take on minimum quantities representative of actual requirements. Stocks of the smaller tonnage items in several instances are in better shape to meet buyers' wants and, although supplies are not excessive, prompt shipments have become more readily available. Shortages in calcium chloride, carbon tetrachloride and all tungsten based chemicals are definitely tight. Oxalic acid and formic acid are exceedingly short. On the other hand, chlorate of potash, copper sulphate, nickel chemicals and zinc sulphate are readily available for prompt shipment. Progress has been made in deliveries of technical epsom salt and no serious shortage exists at the present time. Antimony based chemicals are meeting requirements and so are most of the manganese.

Price advances noted included barium dioxide, barium hydrate, barium nitrate, soda hyposulphite and soda tungstate. The latter is in very limited supply with production cutback owing to the difficulty in securing tungsten ore. Export prices for chlorate of potash have been reduced and barium oxide was priced lower. Although the price of selenium has not changed since 1921, the market is in shorter supply at present than at any time in recent years. An interruption of output at one of the major producing plants in Canada has reduced the supply of selenium from that source. Stocks of defluorinated phosphate rock are fully ample to meet current demand. Copper metal was advanced to 24c. per pound by custom smelters but the major producers did not alter their price from the 21½c. per pound basis.

Paper production as a percentage of six-day capacity was 108.2 in the week ending May 3, according to the American Paper and Pulp Association. This compares with 105.3 the previous week and 107.3 percent a year ago.

Antimony Oxide—Moving mostly to the paint and ceramic industries in satisfactory volume. Producers have met allocations promptly and seemed to be in a position to meet requirements without difficulty. Releases for export have remained limited. Price position steady and without change.

Barium Dioxide — Higher prices have been named for this material. The lowest figure heard in supply sources was 11½c. per pound in drums, carlots, f.o.b. the works with the usual advance for l.c.l.

Barium Hydrate—Sellers' views are higher at 8c. per pound in bags and up to 8½c. per pound, works, depending upon the quantity involved.

Barium Nitrate—Sales have been made at higher price levels. Demand for pyrotechnical uses has shown improvement while stocks are relatively low. The market was quoted at 11½c. per pound for barrels in carlots and at 13c. per pound in less, works.

Barium Oxide—Suppliers have offered this material at 10c. per pound in drums, carlots and at 10½c. per pound in less at the works. This is lower than the former average.

Calcium Chloride — Increased demand has accompanied the advance of the Spring season. Inquiry from out of town points has added pressure to an already tense supply condition. Producers are shipping material as rapidly as made, as there are no reserve stocks, but demand is so far ahead of output that a tight market will likely be maintained for an indefinite period.

Carbon Tetrachloride — Available stocks have not increased so far this month and demand has continued considerably in excess of production. Shipments are running behind schedule and some of the largest producers are allocating material to their regular buyers in order to insure an equal distribution.

Market Trends

Prices Advanced

Barium dioxide, 1½c. per lb.
hydrate, 1½c. per lb.
nitrate, 2c. per lb.
Soda hyposulphite, 50c. per 100 lbs.
pea crystals, 1.70c. per 100 lbs.
tungstate, 10c. per lb.

Prices Reduced

Barium oxide, 1½c. per lb.
Potash, chlorate, for export, 2c. per lb.

Comparative Price Indexes

General Chemicals

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
199.0	199.0	200.0	168.5

Acids

Last week.	Prev. week.	Last month.	Last year.
119.1	119.1	119.1	116.0

(For Current Prices see Page 9)

Chlorine—Buying conditions have remained tight with shipments interrupted to some extent by the inability to secure tankcars. Producers are urging consumers to return tanks promptly in order to facilitate the movement from works. Demand is active enough to prevent the supply position from easing.

Copper Hydrate—Supply position has shown improvement since the turn of the month. Backlog orders have been reduced and, while deliveries are not running flush with contract schedules, the market is in better shape than a month ago. This chemical is said to be used as a base in making some of the other copper chemicals.

Copper Sulphate — Improvement was reported in the agricultural demand which fell off to some extent at the beginning of the month. The strength in copper has imparted a firm tone to the market but there has been no change in prices of sulphate. The feeling in trade quarters was that there is a possibility reserve stocks may be sufficient to meet the season's requirements without causing the establishment of a higher market but this of course will depend upon the extent of consuming demand and the future trend of the metal.

Defluorinated Phosphate Rock—Improvement is noted in the supply situation. Stocks are not excessive but are sufficient to meet immediate requirements. Consuming demand for feeding uses is not as active as noted early in the year. Prices have continued steady at former trading levels.

Epsom Salt—Production has made progress in matching contract account schedules for the technical grade and, while the market position is relatively tight, there is no serious shortage of stocks at present.

Glauber's Salt—Consuming demand has been sustained at a high enough level to keep buying conditions tight. The market is in short supply and firm at former price levels.

Nickel Chloride—Satisfactory supply situation has favored the current buying movement which mostly represents the minimum requirements of consumers. Former prices are being named.

Nickel Sulphate—Stocks have continued sufficient to meet plating and other consuming requirements on a prompt basis at lately prevailing price levels. Immediate shipments have commanded the most attention.

Potash, Chlorate—Supply situation is relatively free at present under a relaxation in demand from the match industry. Buyers show a tendency to limit operations to actual requirements. Prices are maintained at the lower level recently established. The export price has been lowered to 12c. per pound.

Potash, Perchlorate—Fusees have taken most of the domestic production for this month and June to turn out signal requirements for the railroads. Some foreign perchlorate of potash is offered for immediate shipment from Chilian ports.

Soda Ash—No developments suggesting any change in the first-hand market situation could be noted. Demand is holding well above current production and consuming industries are getting all the material it is possible to ship but more is required, particularly dense ash for the glass factories. The movement from works has been facilitated to some extent

For Late Market Developments, See Page 4

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by the availability of more boxcars. According to trade reports, buying in the resale market has relaxed and some of the premium prices have been cut.

Soda, Bicarbonate—Progress is reported in shipments of this chemical and it is stated that the supply position is better than noted a month ago with prospects favorable to a more balanced market.

Soda, Caustic—Definitely tight in supplies of dry and liquid forms. Industrial demand has continued exceedingly heavy and is considerably ahead of output. Producers are allocating material in an effort to keep distribution on an equitable basis.

Soda Chlorate—Continued in short supply last week under an exceedingly heavy miscellaneous consuming demand. Producers have not been able to meet scheduled requirements and the market position has remained definitely tight.

Soda, Hyposulphite — Crystals are priced higher at $2.75 per 100 pounds in bags for carlots and at $3.15 per 100 pounds for smaller quantities, f.o.b. the works, freight equalized. Pea crystals are also higher at prices ranging from $4.30 to $5.25 for bags, New York or Chicago, depending upon the quantity involved.

Soda, Nitrite—Shipments have been made to the dyestuff and meat-packing industries at a level high enough to tax current production. Stocks have remained short and the market's position is slightly out of balance.

Soda, Sulphide — Low extent of available stocks has kept the market position definitely tight. Demand has over-taxed production temporarily and the market is out of balance.

Soda, Tungstate—Higher prices are recorded for this chemical. Suppliers are only quoting for the month of May and name $1.45 per pound. This price is for limited quantities to regular customers. Difficulty in securing tungsten ore has restricted output of all tungsten based chemicals.

Zinc Sulphate—Current stocks are capable of meeting both agricultural and industrial requirements and producers are in a position to accept orders for prompt shipment. Consuming inquiry is meeting seasonal expectations and in one major producing quarter, it was stated that sales are averaging about 10 percent above the prewar level.

Acids

Formic—Current production has not been sufficient to meet the active extent of consuming demand promptly and the market has not relaxed from its former tight condition. The carboy situation has shown improvement.

Hydrofluosilicic—Stocks have been maintained at a level sufficiently large to permit suppliers to meet demand promptly. Breweries and distilleries have bought this material for current requirements.

Muriatic—Consuming demand has continued active and is being supplied on a fairly prompt basis. No price changes have been announced by major producers.

Naphthenic—No relaxation from the tight supply condition of this market. Production has been kept down by the stringency in caustic soda. Demand has continued active and prices have remained firm but unchanged.

Oxalic—Continued in a heavily sold ahead condition. No relaxation in industrial demand could be noted and shipments are running behind schedule. Occasional resale stocks have reached the market at premium prices but producers are not inclined

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to accept new business at present that calls for nearby delivery.

Sulphuric—Stocks not excessive but meeting current requirements. Tank-car shortage remains in evidence and has interrupted the movement in some areas. Demand from the iron and steel industry and for agriculture has been maintained at a high level.

Non-Ferrous Metals

Cadmium—Continued in definitely short supply. Market quoted firm for ingots and sticks at $1.75 to $1.80 per pound.

Copper—Sales of copper have been made by some custom smelters and small producers, who constitute the outside market, at 24c. per pound. Large producers have not advanced their price from 21½c. per pound to date. Foreign copper has been selling abroad for 23¾c. per pound delivered at New York. That is equivalent to about 24c. per pound delivered in the Connecticut Valley.

The sharp rise in the price of copper is the first reaction in the metal market to the recent suspension of the import tax of 4c. per pound that has been levied on copper for years. According to trade reports, major domestic producers may advance their price shortly.

Lead—According to the American Bureau of Metal Statistics, receipts of lead ore and scrap in March from smelters only increased to 44,146 tons from 38,410 tons in the short month of February. Total tonnage for the first quarter was 129,217 tons, an increase of 10,803 tons over the same period in 1946.

Quicksilver—Spot prices remained about steady at $85 per flask. The same quotation was named on the Pacific Coast where metal was reported to be easy and activity to be at a minimum. The European cartel's price at Spanish or Italian ports was $65 per flask to which would have to be added the American duty. This price had prevailed for American buyers for some time past while European consumers had paid a premium of $14.50 per flask over that $65 figure. It is not clear whether this $14.50 advantage for American buyers will be continued but it seemed likely that $65 was to become the world-wide price of the cartel.

San Francisco, May 7.—Little activity was noted in the quicksilver market the past week. Spot metal was easy. Producers were quoting metal between $85 and $86 per flask, f.o.b. San Francisco.

Selenium—Stocks have continued to decrease and the market has remained firm but unchanged in price. There has not been a price change in this material since 1921. Interruption in activities at one of the major producing plants in Canada has been reflected in the current shortage of available supplies.

Tin—Conservation order M-43 was amended May 1. The fulfillment of requirements for the defense of the United States has created a shortage in the supply of tin for defense, for private account and for export and a new order is deemed necessary and appropriate in the public interest to promote the national defense. The amendment refers to deliveries of pig tin, imports, exports, use of tin in manufacture, implements of war, inventories, schedules for permitted uses and miscellaneous matter, including appeals and violations.

Tungsten—Reported in exceedingly limited supply and difficult to secure at present. The tendency is toward higher prices with no easement in sight for supplies at the present time. It is stated that the best ore comes from China and that none is being brought in at present. The market is quoted nominal at $32.00 per unit.

Zinc—Production of slab zinc of all grades during April totaled 73,891 tons compared with 60,903 in the similar month of last year, the American Zinc Institute, Inc., reported. Shipments last month totaled 72,243 tons; stocks, 163,697, and unfilled orders, 53,184. A year ago shipments totaled 73,191 tons; stocks, 248,706, and unfilled orders, 39,018.

Zinc Scrap—Zinc scrap consumption, which had exceeded 19,000 short tons in each of the four preceding months, declined to 16,475 tons in February, according to the Bureau of Mines. In all previous years since the monthly zinc scrap survey was started, January and February activity had been below average so the latest drop should not yet be taken as the beginning of a downward trend. Consumers' zinc scrap receipts were 17,998 tons in February, a normal amount, and stocks increased to 33,866 tons. The February decline in secondary zinc recovery was 17 percent, the same as in scrap consumption, the recovery totals for the two months being 13,083 tons and 11,555 tons. Total production of zinc chemicals, including those made from primary raw materials as well as from scrap, also decreased. Recovery of secondary zinc in zinc dust totaled 1,921 tons compared with 2,328 tons in January, and in lead free zinc oxide, 969 tons compared with 1,310 tons. Zinc recovered from scrap in lithopone, including other zinc sulfide pigments, amounted to 1,362 tons in February compared with 1,592 tons in January. February decreases in production of redistilled slab and remelt zinc were moderate.

Tragacanth Co. Plans To Move Offices

The Tragacanth Importing Company, 24 Stone street, New York, will move its offices on July 1 to a new location at 160 Water street, New York.

Monsanto Names Sales Head for New Unit

Monsanto Chemical Company's plastics division, Springfield, Mass., has appointed Albert W. Dunning as sales manager and Edmond S. Bauer jr., as assistant sales manager of a newly created industrial and surface coating resins department.

Mr. Dunning, who has been with Monsanto since 1934, was assistant sales manager in charge of surface coating materials before the creation of the new division. He has been in the plastics division since 1941, with the exception of four wartime years with the Navy's Bureau of Aeronautics.

Mr. Bauer has been a member of the technical service department at Monsanto since 1942, and was previously associated with the Flood & Conklin Manufacturing Company.

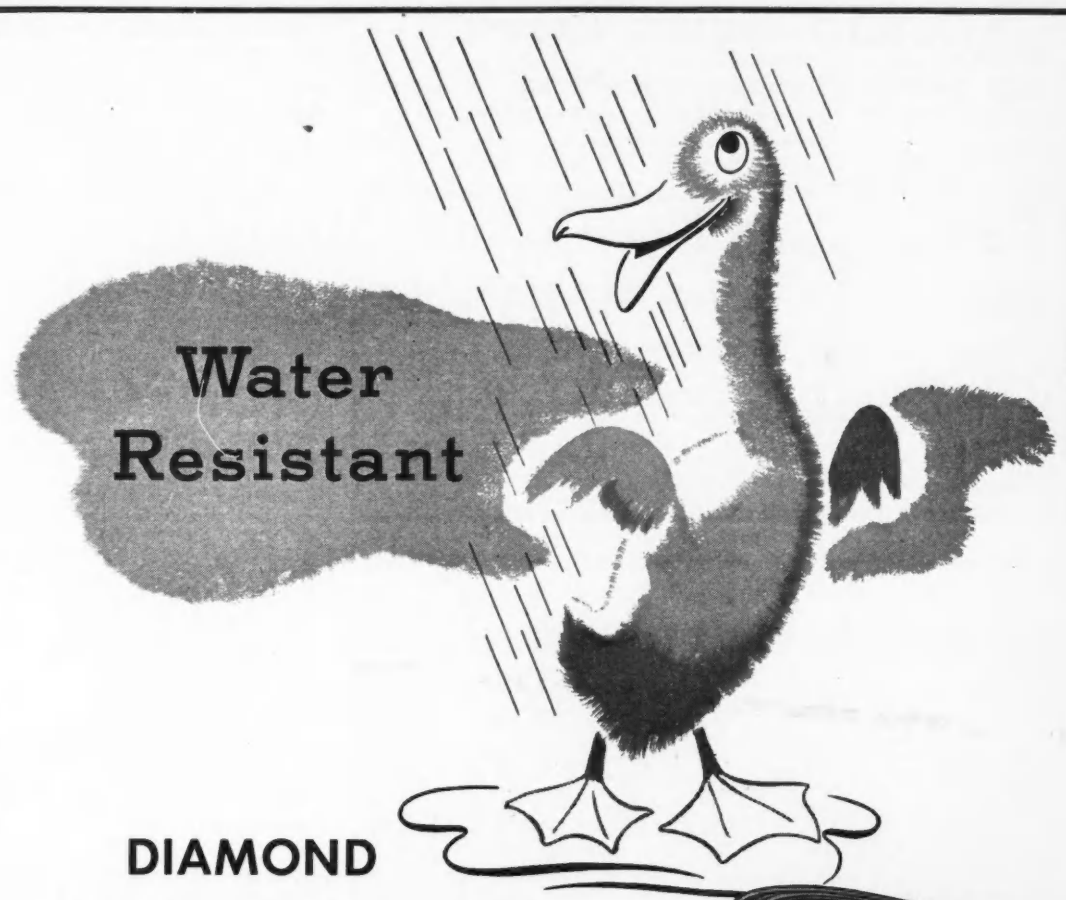
Magnesium Chloride Reduction Tests Made

Results of a series of tests conducted by the Bureau of Mines involving the reduction of magnesium chloride by calcium carbide to produce magnesium metal indicate little promise for the use of this method in present-day commercial production, according to a publication released on the findings.

Magnesium chloride was rapidly and virtually completely reduced to magnesium by calcium carbide at temperatures of 750 degrees centigrade or higher, but the magnesium was so closely mixed with other reaction products that it could not be separated by simple methods. Copy of Report of Investigations 4059, "Reduction of Magnesium Chloride by Calcium Carbide," may be obtained free from the Bureau of Mines, Department of the Interior, Washington 25, D. C.

Goodrich Chemical Moves West Coast Sales Office

The B. F. Goodrich Chemical Company, Cleveland, has moved its West Coast sales office to 714 West Olympic boulevard, Los Angeles 15. The phone number is Richmond 0653. R. E. Bitter is in charge of the office.



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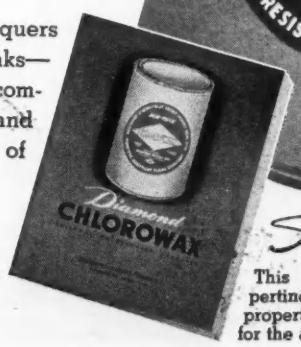

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Obituaries

—Continued from page 4

concern and at one time represented it as manager of the Ultramarine Company, New York.

Charles E. Lemke, retired plant foreman for Merck & Company, chemical manufacturer, Rahway, N. J., died May 4 at Westfield, N. J. He was sixty-five years old, and had spent thirty years with the chemical company when he retired in 1943.

Patrick C. Lynch, founder and operator of the Lynch Plate Glass & Mirror Works, glass manufacturer, Brooklyn, died last week. He was 64 years old. In partnership with his son, John B. Lynch, he had conducted the glass business for more than forty-five years.

Robert H. Mershon, retired advertising manager and secretary of Scott & Brown, pharmaceutical manufacturer, Bloomfield, N. J., died May 5 in Hackensack, N. J. He was seventy-five years old.

Floyd G. Raymond, pharmacy instructor and assistant superintendent of the medical clinic of the New York University School of Medicine, died May 4 at Passaic, N. J. He was seventy-four years old.

Max A. Von Der Hayden, retired laboratory technician at the Bayway refinery of the Standard Oil Company of New Jersey, died recently at Merchantville, N. J. He retired ten years ago.

F.D. Snell Offers New Booklet

Foster D. Snell, Inc., consulting chemists, New York, has prepared a new bulletin entitled "Physiological and Clinical Studies." Copies are available from the company, located at 29 West Fifteenth street, New York 15.

Trade Briefs

American Paper and Pulp Association has appointed John A. Elton, manager of the foreign department of Brown Company, Portland, Me., as a member of the export committee.

Chance Bros., Ltd., Smethwick, England, has developed a new type of glass specially designed for the use of operators engaged in lamp-working glass.

Westinghouse Electric Corporation, Schenectady, N. Y., has perfected a "fuel atomizer" that whips heavy oil into a miniature cyclone of droplets in order to speed development of a new gas turbine engine.

Industrial Laboratory Design Discussed

In a report to the American Chemical Society's chemical education division, Dr. C. F. Rassweiler, vice-president for research and development of the Johns-Manville Company, New York, has declared that architects are evolving an entirely new concept of industrial laboratory design, embodying the simplicity, versatility and ease of enlargement demanded by rapidly expanding research organizations.

The new approach, according to Dr. Rassweiler, has included the developing of the concept of modular design, changing the laboratory into a simple assembly of work units, and the adapting of certain practices which have become established in large office building construction.

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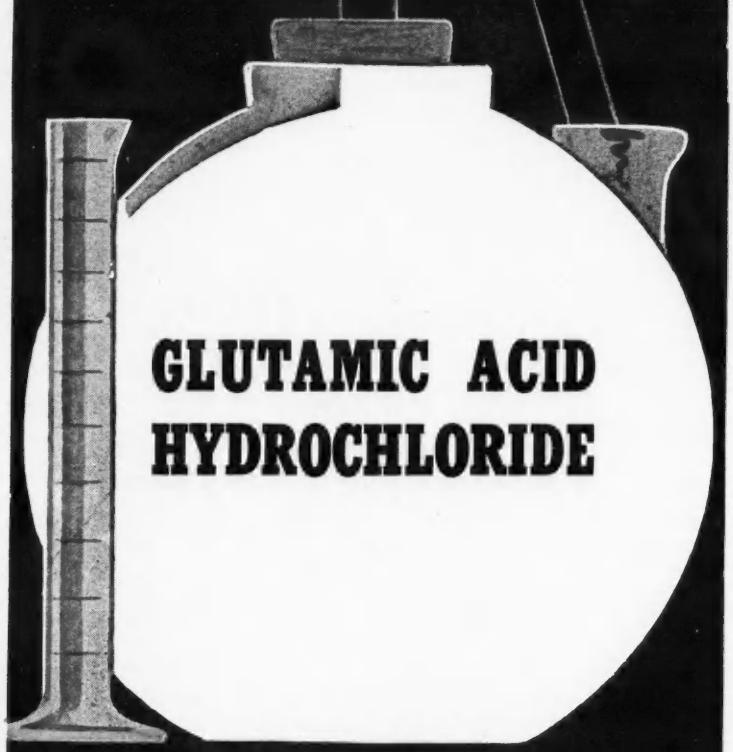

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Rohm & Haas Lowers Styrene Powder Price

Rohm & Haas Company, chemical manufacturer, Philadelphia, has reduced prices of styrene molding powder by 10 to 12 cents per pound, and has made prices for natural and colored powder the same.

Under the former price schedule colors ranged 6 to 10 cents per pound more than natural, according to quantity. In quantities of 20,000 pounds and over, the new price is 63 cents per pound, compared with former prices of 75 cents per pound for colors and 69 cents per pound for natural.

Chlorine Plants Planned in Canada

Chlorine production in Canada will be increased by the construction of two new plants, according to plans recently revealed. The Aluminum Company of Canada, Ltd., intends to build a large plant for the production of electrolytic caustic soda and chlorine at Arvida, Quebec, and the Standard Chemical Company, Ltd., is planning an electrolytic alkali unit at Sarnia, Ontario, with an annual capacity of 18,000 tons of chlorine.

American Flange Plans Monthly Trade Luncheons

The American Flange & Manufacturing Company, New York, has introduced a new feature in the form of trade luncheons given once a month at the Waldorf-Astoria hotel. Each member of the executive staff of the company invites a representative guest from the industry. During the course of the luncheon, open forums are encouraged. The most recent luncheon was informally addressed by L. B. Keplinger, president of the Steel Shipping Container Institute.

Sweden Plans Uranium Output from Slate

Production of large quantities of uranium from slate was promised last week by the Swedish Atomic Commission in a report to its government. Limited amounts of uranium already have been produced, and mass production could be gotten under way in the near future, said the commission. The report proposed the establishment of an atomic energy corporation owned by the state and private interests.

Sulphuric Acid Plant To Be Built in Ceylon

A 2,500,000 rupee plan for the establishment of a 2,000 ton sulphuric acid plant to manufacture 1,500 tons of caustic soda and 1,300 tons of chlorine a year has been approved by the executive committee of labor, industry and commerce of the Ceylon State Council, according to "Comtelburo" news agency.

Int'l Nickel Names Friend to New Post

The International Nickel Company, New York, has named Wayne Z. Friend to be assistant section head of the corrosion engineering section of its development and research division. Mr. Friend has been with International Nickel since 1937, when he went to them from the Phillips Petroleum Company.

Trade Briefs

Libbey-Owens-Ford Glass Company, Toledo, Ohio, will soon begin to expand its safety-glass plant at Ottawa, Ill, in anticipation of greater production of automobiles and consequent heavy demand for glass in 1948.

Organic chemicals imported into Chile during the first ten months of 1946 were worth $3,324,000, an increase of 9.5 percent over the corresponding period in 1945. Exports of these materials from Chile decreased to $462,390 during this period, 45.7 percent below 1945.

W. H. Stewart has been assigned to the home office of Hagan Corporation and Hall Laboratories, Pittsburgh, as sales engineer for combusion control and boiler water conditioning. Mr. Stewart was formerly service manager for the Hagan representatives at Seattle.

At Your Service

Coincidental with the celebration of our 25th year of service to the agricultural and industrial chemical trade, we announce the opening of our new warehouse and plant at Hicksville, Long Island.

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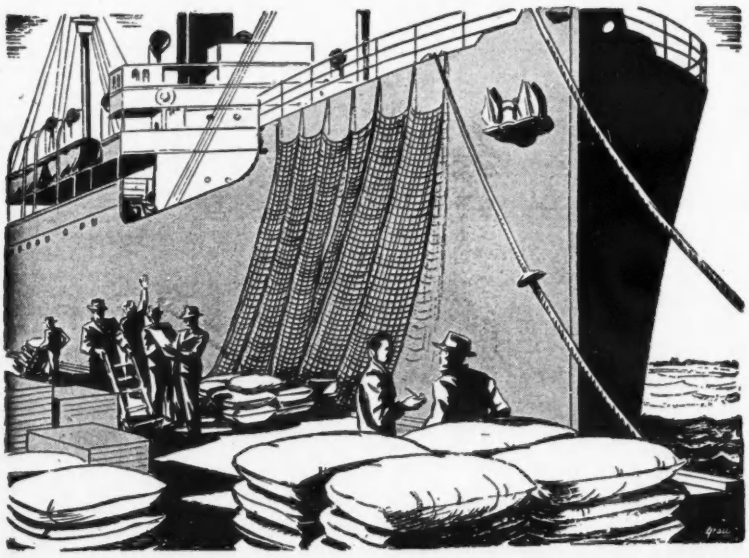

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Plastic Industry

—Continued from page 5

shutdown of the coal mines will probably not materially affect the supply of coaltar chemicals and benzol. In this respect there are more optimistic reports on the 1947 production of these materials and barring unforeseen occurrences, the industry can expect continued and gradual improvement."

Flammability Laws

In discussing the status of flammability legislation and its relation to plastics, W. F. Chandler, produce manager of the National Carbon Company, declared that "with respect to plastic films, all reports which have come to our attention in which the claim has been made that a person was injured by the burning of so-called 'plastic' wearing apparel have been investigated, and we have not found one single authenticated case of injury caused by the burning of wearing apparel made from unsupported plastic film."

He described the efforts of the California legislature to enact a workable law governing the use of "dangerously flammable materials" in wearing apparel, and took note of three bills recently introduced in the United States House of Representatives designed to prohibit the movement of such materials in interstate commerce.

In some detail the speaker outlined the complexities of definition of the term "dangerously flammable" and of establishing satisfactory testing procedures and standards that have beset legislators, and the efforts being made by the SPI committee on flammability to aid them.

Latin-American Markets

Future competition between the United States and Great Britain in the world market for plastics was predicted by C. C. Concannon, chief of the chemical and drug division of the Department of Commerce, in his address entitled "Latest Developments in South American Plastics Market."

Referring to the Latin-American countries, he declared, "the future awaiting your products is bright, both for materials and finished goods which find a ready sale in all of these countries. But equally great possibilities lie ahead for the entrance of those intangible commodities which are so much a part of what the United States has to offer. I refer to American know-how and American technical skill. Those manufacturers who provide service along with sales should find their business with our friends to the south increasing steadily."

This country and Great Britain, he said, will eventually be in competition for foreign plastics markets, and warned that the characteristic British cultivation of foreign sales is not to be discounted.

At present, the speaker declared, rivalry is not great between these two leading plastics producing countries because of the existent sellers' market and the consequent consumer scramble for any materials obtainable. However, such conditions will not continue indefinitely. They probably will last through this year and possibly well into 1948, according to Mr. Concannon, but after that "the race will be to the swift."

Repairing Molds

"A New Method for Repairing Molds" was described in detail by Hans H. Wanders, Northern Industrial Chemical Company, who prefaced his description by an outline of the previous expensive, time-wasting and dangerous-to-molds methods used.

Detailed reports of a number of successful repairs accomplished through the use of an electrical metal disintegrating machine, known as the Thomas Metalmaster, were given by the speaker, who declared this method to be far superior to the old operation of stripping chrome, annealing, rehardening, polishing and plating.

He admitted that applications of the

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method have been limited to the length of time that it has been in use, but declared that "I feel that we have proven without a doubt the practicability of the process and it seems to me that the only limits to its wider use are one's imagination coupled together with common sense in its use on any particular job."

Informative Labeling

Creation of a performance label, based on the applied use of the product and custom for its care, was suggested by Frank Stutz, of the Better Fabrics Testing Bureau, in his address on "The Advantages and Pitfalls of Informative Labeling."

Mr. Stutz' idea would include the writing of standardized "lines" to describe the practices of use and care of plastic products, which would eliminate the con'usion now being caused by the use of different "languages" in the writing of consumer information.

He also warned that "the generic word, plastic, on a label can serve only to remind the ultimate consumer of a bad experience with war-time products," and suggested that these products be labeled with a name based on their technical classification or a coined brand name.

Temperature Control

Discussion of temperature control of molds used in injection molding was led by H. A. Meyrick, president, Industrial Manufacturing Corporation, who first reviewed the necessity for temperature control and the methods by which control or lack of control can be determined.

Continuing his discourse, the speaker described the construction of equipment used for controlling temperature, and the proper design of molds so that they will allow control equipment to operate within desired limits.

Forming Lucite Sheets

Various techniques for the forming of Plexiglass and Lucite sheets without distorting the excellent optical properties of the materials were described and illustrated with slide pictures by W. W. Farr and O. L. Pierson, of Rohm & Haas Company.

Methods of forming simple shapes by "blowing of bubbles," centrifugal force, the "snapback method," extrusion and "ridge forming" were explained and the various templates, dies, molds, greases and other equipment necessary were described in detail and illustrated with schematic diagrams.

Forming of more complex shapes by combinations of these procedures was also explained, and illustrations were given of combinations of fabrication and forming to obtain desired shapes.

Description of the Rockford "Hy-Jector," a new machine which combines preheating, preforming and molding in one operation, was given by Ray Alden, Globe Imperial Corporation, and Rudy Herrstrum, Rockford Machine Tool Company, who declared that it meets a long-felt need in the plastic industry.

Advantages claimed for the new machine include up to 400 percent increase in production; reduction of rejects by elimination of the human element; automatic operation which enables unskilled operators to convert raw powder into finished product in one automatic operation, and increased efficiency through decreased operator fatigue as a result of automatic operation.

Screw Design Experiments

W. P. Moeller and R. Phillips, of the central research and development laboratories of the Celanese Corporation of America, reported on the results of their experiments with screw design for equipment used for non-solvent plastic extrusion.

Although no final optimum design has yet been formulated, they said, investigation is continuing and it is hoped that further data will become available to add to the general knowledge on the subject. So far, their experiments have indicated that, among the designs evaluated, the quality was about inversely in proportion to the output, and consequently the final design must be a compromise between these two factors.

As representative of the National Institute of Cleaning and Dyeing, Albert E. Johnson took note of the excellent cooperation being given to his organization by the plastics industry, and predicted future gains for both industries in the field of plastic articles on wearing apparel as a result of continuing such cooperation.

Bids Wanted

Caustic soda, 51,250 pounds, Treasury Department (Washington, D. C.) invitation 3-W-51974-R, May 19.

Compressed gases, during fiscal year 1948, Veterans Administration (Outwood, Ky.) invitation 48-3, May 21.

Copper sulphate, 1,800 pounds, Army Map Service (Washington 16, D. C.) invitation 30, May 21.

Cornstarch, 450,000 pounds, Army Quartermasters, (Chicago 9, Ill.) invitation 101, May 14.

Drugs and chemicals, Veterans Administration (Brooklyn 5, N. Y.) invitation 47-29, May 16; Veterans Administration (Washington, D. C.) invitation A-109, May 19.

Fuel oil and kerosene, Treasury Department (Washington, D. C.) invitation 9FO-9495-R, May 23.

Gelatin glue, 15,000 pounds, Bureau of Engraving & Printing (Washington, D. C.) invitation BEP-714, May 20.

Lacquer, 10,160 gallons, Army Air Forces (Dayton, Ohio) invitation 803, May 20.

Laundry starch, 161,280 pounds, Veterans Administration (Washington, D. C.) invitation 159-E, May 20.

Methyl bromide, 750 pounds, Army Air Forces, TSWPC (Dayton 1, Ohio) invitation 498, May 19.

Monomethyl paramidophenol sulphate, 3,072 pounds, Army Air Forces (Dayton, Ohio) invitation 848, May 16.

Milk powder, 2,000,000 pounds, Army Quartermasters (Chicago 9, Ill.) invitation 98, May 15.

Nitric acid, 13,000 pounds, Army Air Forces (Dayton, Ohio) invitation 837, May 20.

Paint, enamel, 100 gallons, Department of Justice (Chillicothe, Ohio) invitation 5-2698, May 14; 7,284 gallons, Army Air Forces (Dayton, Ohio) invitation 818, May 21; 10,500 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 218, May 16; 20,000 gallons, invitation 219, May 16; 20,000 gallons, invitation 220, May 16; 11,000 gallons, invitation 221, May 16; **various types,** 500 gallons, Army Air Forces (Sacramento, Calif.) invitation 8, May 26; 600 gallons, Army Air Forces (Dayton, Ohio) invitation 802, May 20; 1,000 gallons, Army Air Forces, TSWPC (Dayton, Ohio) invitation 513, May 29; 2,000 pounds, Department of Justice (Chillicothe, Ohio) invitation 5-2701, May 15; 6,300 gallons, Procurement Division, Marietta T.C. Depot, Pa., invitation 59, May 20; 300 gallons, Army Ordnance Department (Rock Island Arsenal, Ill.) invitation 137, May 29.

Paint, stripping compound, 200,000 pounds, Army Ordnance Department (Metuchen, N. J.) invitation 222, May 22.

Paint thinner, toluene substitute, 8,316 gallons, Army Air Forces (Dayton, Ohio) invitation 811, May 20.

Potassium permanganate, 7,200 pounds, Army Air Forces (Dayton, Ohio) invitation 843, May 16.

Red squill powder, 1,000 pounds, District of Columbia Health Department (Washington, D. C.) schedule 10022-A, May 14.

Rosin core solder, 15,000 pounds, Army Air Forces (Dayton, Ohio) invitation 790, May 14.

Shellac, orange, 288 pounds and 3,126 gallons, Army Air Corps. (Dayton, Ohio) invitation 823, May 22.

Soap, chip, 187,380 pounds, laundry bars, 346,200 pounds, powder, 390,900 pounds, toilet, 312,714 pounds, Veterans Administration (Washington, D. C.) invitation 150-E, May 19; laundry, 50,000 pounds, Post Office Department (New York, N. Y.) invitation 2335, May 14; paste, 125,000 pounds, Army Air Forces (Dayton, Ohio) invitation 824, May 22.

Soda ash, 180,000 pounds, Treasury Department (Washington, D. C.) invitation 3-W-51974-R. May 19.

Sodium metasilicate, pentahydrate, 498,800 pounds, Veterans Administration (Washington, D. C.) invitation 158-E, May 16.

Sodium sulphite, 4,200 pounds, Army Map Service (Washington 16, D. C.) invitation 30, May 21; 22,325 pounds, Army Air Forces (Dayton, Ohio) invitation 848, May 16.

Sodium thiosulphate, 172,000 pounds, Treasury Department (Washington, D. C.) invitation 3-W-51975-R, May 16; 2,167,500 pounds, Army Air Forces (Dayton, Ohio) invitation 788, May 15.

Triethylamine, 330 gallons, Army Air Forces (Dayton, Ohio) invitation 837, May 20.

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Textile and Leather Chemicals

Inquiry for replacements of tanning materials for nearby delivery continued light and spotty last week. Offerings of quebracho extract were scarce and the market was firmer with the increased cost of freight rates for shipment from the Argentine. Moderate sales solid ordinary were reported at an increase of more than a cent per pound for nearby delivery. The clarified grade was unavailable for shipment from primary markets. Demand for wattle extract continued active, but trading was restricted owing to the scarcity of material for shipment from producing centers. Valonia was inactive and prices for shipment were lower and nominal. Divi divi was reported steady and offers for shipment continued scarce.

Consuming demand for sizing materials continued to take the capacity output of corn dextrin and starch against current contracts. Resale material was reported slightly freer, and was readily absorbed for export. Inquiry for starches for shipment abroad was active and unsatisfied. Exporters were reported offering premiums for potato starch for shipment. Stocks of this material was scarce as the reduced production was delivered to domestic users on prior contracts. Most mills were shut down for the season and the balance scheduled to cease operating within the next ten days. Albumen egg and yolk market was slightly easier and carlots were offered in some quarters at a reduction of 5 cents per pound. Small lots were unchanged and well held Demand of late has been inactive because of the high prevailing prices.

Chemicals

Bichromates — Conditions in this market remained firm. Supply situation continued tight. Production was moving steadily against contracts. Prices were unchanged and firm.

Prussiates—Deliveries against orders were in good demand, while new business was confined to actual needs. Quotations were unchanged.

Soda, Acetate—This market was steady and limited. Supplies were closely held at former levels. Demand was moderate.

Soda, Hydrosulphite—Business was reported light and mainly for immediate needs. Consumers absorbed sizable quantities against former orders. Prices were without change.

Sulphonated Oils—Prices of sulphonated castor oil and tallow were reduced sharply and reflected the decline of the basic materials. Demand, however, was not accelerated by the lower prices and was confined to small lots for actual requirements. Castor oil sulphonated, 50 percent was quoted at 16½c. to 17c. per pound, and 75 percent at 24c. to 25c. per pound, drums. Tallow, 25 percent, was named at 7¾c. to 8c., and 50 percent, 10¾c. to 11c. per pound, drums.

Sizing Materials

Albumen, Blood—Business was slow and restricted to immediate requirements. Deliveries against orders were reported in fair request. Prices were unchanged.

Albumen, Egg—Lack of buying interest created an easier tone in this market for round lot quantities. Prices were reduced 5c. per pound for carlots, in some quarters, while other sellers were holding at former levels. Trading was slow and confined to small lots. Granular ranged from $1.90 to $2.00 per pound, barrels, according to quantity and seller. Production was reported still below the volume at this time last season. Technical was steady at $1.15 to $1.30 per pound, according to quantity. Dried egg production during March totaled 11,031,000 pounds, compared with 19,731,000 pounds in March last year—a decrease of 44 percent. Production consisted of 10,629,000 pounds of whole egg, 118,000 pounds of dried albumen and 284,000 pounds of dried yolk. Dried egg production for the first three months of 1947 totaled 35,524,000 pounds, compared with 28,370,000 pounds during the same period last year. Purchases of dried whole egg by the Department of Agriculture from January 1 through April 18, 1947, totaled 42,087,000 pounds. The quantity of liquid egg produced during March totaled 93,969,000 pounds, the Bureau of Agricultural Economics reported. The total was 31 percent less than the 136,749,000 pounds produced during March last year. The quantities used for freezing, drying and immediate consumption were all smaller than last year. Department of Agriculture announced May 5 that the support egg prices in the Midwest in June will be the same level as for May, reflecting an average price to producers of 35c. per dozen for shell eggs. Offers of dried eggs for June delivery will be received by the department beginning Tuesday, May 20, and each Tuesday thereafter. Frozen egg offers for June delivery will be received beginning Wednesday, May 21, and each Wednesday thereafter. Purchases will be made from vendors who certify that they have paid producers an average price of 35c. per dozen for the shell eggs.

Market Trends

Prices Advanced

Quebracho ext., ordinary, 1¼c. per lb.

Prices Reduced

Albumen, egg, 5c. per lb.
Egg yolk, 5c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
311.8	315.0	310.9	288.5

(For Current Prices see Page 9)

Corn Sugar—Market was steady at the recent decline of prices. Demand was moderate.

Dextrin, Corn—Production was sold up and moved steadily against former contracts. Prices were unchanged and well held at recent reduction of 15c. per 100 pounds.

Egg Yolk—With business of late restricted to small quantities some sellers reduced prices 5c. per pound for carlot quantities. High prevailing prices have affected business of late. Carlots were offered at $1.20 per pound in some quarters. Smaller lots were maintained up to $1.30 per pound, according to quantity.

Starch, Corn — Active consuming continued to readily absorb the capacity production against former orders. Resale material was slightly freer and was usually taken by exporters. Export demand continued active. Market was steady at the decline 15c. per 100 pounds announced the week previous.

Starch, Potato — This market was strong under active demand for export and a marked reduction in the output. The season was practically at an end, with most mills shut down and the balance scheduled to cease operating within the next ten days. Deliveries against contracts are covering needs of domestic users. Exporters were in the market and were bidding at premiums to obtain resale lots. Deliveries of potato starch totaled 13,000,000 pounds to UNRRA in March.

Tapioca Flour—Domestic consumers continued to show little, if any interest in replacements of flour from Brazil. Offers for shipment were more numerous. Prices were lower and covered a wide range. Shipments of good quality flour were quoted at 7¼c. to 7½c. per pound, f.o.b. southern Brazil and at about 6c. f.o.b. northern Brazilian ports. Interest in stocks on the spot locally was slow and prices were merely nominal ranging from 7¾c. to 12c. per pound, according to quality and quantity.

Tanning Materials

Chestnut Extract—Consumers were taking moderate quantities for actual needs and showing little interest in later requirements. Stocks were more liberal and adequate to cover demand. Offerings for export were freer, with inquiry for shipment less active. Prices were unchanged.

Divi Divi—Business was restricted by the scarcity of offers from primary centers. A fair inquiry was reported for nearby delivery. Quotations were unchanged and well held.

For Late Market Developments, See Page 4

Arrivals of 897 bags were noted at New York last week for delivery on former orders.

Mangrove Bark—Conditions in this market were quiet with prices unchanged and more or less nominal, ranging from $60 to $62 per ton, for 38 per cent tannin, exdock. Inquiry for nearby delivery was light and spotty. Imports at New York totaled 7,730 bags last week for delivery on previous contracts.

Myrobalans—Trading was inactive last week. Interest was lacking. Shipments were unchanged for J1 and J2 mixtures at $45 to $46 per ton, exdock. Some 140 bags of powdered were received at New York last week.

Quebracho Extract—Several lots of solid ordinary extract amounting to 14,110 bags were received Atlantic ports last week for consignment against former orders. The market was firmer and recent sales of moderate lots were reported up to 9⅜c. per pound, ex dock, less duty, during the past ten days. Offers were reported at about 9⅛c. to 9⅜c. same basis, but buying interest was reduced and trading spotty. Clarified was unavailable for shipment as the production was still curtailed by the scarcity of soda ash.

Sumac—This market was inactive. Shipments were offered at former levels. Ground and leaf were quoted at $105 per ton, ex dock.

Tara Powder — Primary markets were reported unchanged and firm. Offers for shipment were light and the market was steady at $225 per ton, ex dock.

Valonia—Imports of valonia totaled 1,130 bags at New York last week. Interest in replacements continued slow. Prices for beards for shipment were nominal at $68 to $70 per ton and cups at $55 per ton, ex dock.

Wattle Extract—Tanners continued to show an active inquiry for nearby replacements. Offerings for shipment continued light and the market remained in a firm position. Prices were maintained for all grades.

N.A.I.D.M. Sets

—Continued from page 7

Munro, fumigation laboratory, Department of Agriculture, Montreal.

"Testing Residual Sprays," by Dr. M. H. Doner, J. R. Watkins Company, Winona, Mich.

"Technical and Commercial Aspects of 2,4-D," by Dr. L. W. Kephart, in charge, weed investigations, U. S. Department of Agriculture.

Tuesday, June 10

Report of Disinfectant Scientific Committee, by Jack C. Varley, Baird & McGuire, Inc., St. Louis, Mo.

Symposium on Floor Waxes, M. L. Magee, T. F. Washburn Company, Chicago, leader.

"The Newer Synthetic Insecticides," by E. F. Knipling, in charge, division on insects affecting man and animals, Bureau of Entomology & Plant Quarantine, U. S. Department of Agriculture.

"Problems Facing Household Insecticide Industry," by A. W. Miller, Gulf Research & Development Corporation, Pittsburgh.

"Proper Shipping Methods," by a representative of the American Railway Association.

Film: "Army Incendiary Program."

Wednesday, June 11

Symposium on Insecticide Raw Materials, J. A. Jenemann, E. I. du Pont de Nemours & Company, leader.

"A New Mothproofing Larvacide," by Dr. Nicholas Molnar, Fine Organics Inc., New York.

"Glycols in Sterilization," by L. D. Polderman, Carbide & Carbon Chemicals Corporation.

Symposium on Containers, T. E. Alwyn, American Can Company, leader.

"Industrial and Trade Conditions," by Alvin H. Brendt, City National Bank & Trust Company, Chicago.

Netherlands Imports Decrease in March

Imports of goods into the Netherlands during March, 1947, amounted to 1,023,000 metric tons, compared with 1,312,000 tons in February and 762,000 tons in January, according to "Aneta" news agency. Among the most important products, in metric tons, were:—

	March	February
Oil cakes	21,200	11,700
Ores	82,700	80,300
Artificial fertilizer	32,300	51,500
Phosphates	46,300	39,600
Petroleum	31,400	34,500
Fuel oil	95,800	115,000
Benzene	23,100	24,700
Crude oils	78,100	82,900

Chilean Nitrate Output Expected to Increase

Nitrate production in Chile is expected to total 1,700,000 metric tons for the twelve-month period ending June 30, 1947, as compared with 1,603,820 tons in the previous twelve-month period. Exports in the year ending June, 1946, amounted to 1,614,245 tons and during the following six months totaled 521,293 tons.

Hand Gets Research Position at Cornell

New York State College of Agriculture, Cornell University, has appointed Dr. David B. Hand, director of research and quality control of Sheffield Farms Company, to be professor of biochemistry and head of the division of food science and technology at its Geneva experiment station.

Trade Briefs

Ejay Chemical Company, Jersey City, N. J., has filed papers with the Secretary of State of New York to do business in New York.

Lion Match Company has purchased a one-story loft building at 4460 to 4486 Fifth street, Long Island City, N. Y., assessed at $400,000.

Chemicals and laboratory materials will be allocated exchange credits of $478,000 under the 1947 supply plan for French Indochina.

St. Regis Sales Corporation has opened an office in Louisville, Ky., for the sales of multiwall paper bags. It is under the supervision of Charles C. Keefer.

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SODIUM CHROMATE
SODIUM NITRATE
SODIUM STEARATE
STEARIC ACID
SYNTHETIC IRON OXIDE, BLACK
SYNTHETIC IRON OXIDE, YELLOW
ULTRAMARINE BLUE
ZINC BORATE
ZINC CARBONATE
ZINC CHROMATE, PURE
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Coaltar Chemicals

For the eighteenth consecutive week steel production was recorded at above the 90 percent level, but strikes at several major plants had caused a drop of 5.6 percent in the steel industry's operating rate.

No relief from the very tight supply situation for coaltar basic chemicals was reported, with all products except toluol and some grades of pyridin still declared to be in tight supply. Cresylic acid continues to be extremely short, with no relief in sight, and an increase in price quotation amounting to 15c. per gallon was recorded. Benzol, creosote oil and coaltar remained in approximately the same position that they have occupied for the past several weeks, with supplies tight and demand heavy. Abnormally heavy demand for crude naphthalene continued to make stocks of this product scarce, and production of phenol was still sold well in advance. Toluol was reported to be available in good supplies and xylol showed some improvement, with the market now said to be in balance.

Intermediates continued to be in generally tight supply, with some producers reporting advances in quotations on some items. Resublimed betanaphthol, orthocresol and paracresol all felt the impact of price increases, but little change in the supply situation was reported. Resumption of production at the formerly strikebound plant of one of the major producers of phthalic anhydride did little to improve the extreme tightness of the market with regard to this product and supplies were reported to be still very scarce. Market situation for cyclohexanol and cyclohexanone was reported to be showing some improvement, with competitors making no effort to meet the lowered prices announced recently by one major producer.

Steel operations for the week beginning May 5 were scheduled at 90.6 percent of ingot capacity, compared with 96.4 percent in the preceding week, according to the American Iron and Steel Institute. A month ago the indicated rate was 95.1 percent. The present schedule is equivalent to the production of 1,585,400 tons of ingots and castings, compared with 1,686,900 tons for the preceding week and 1,034,500 tons for the corresponding week in 1946.

Indications from Italy show little hope that the present and early future coal supply will provide much coal for chemical processing, and the possibility of that country importing United States coaltar distillates was said to be the main object of the recent visit to this country of an Italian business official.

Market Trends

Prices Advanced

Acid, betaoxynaphthoic, bbls., works, 10c. per lb.
Acid, paratoluidinmetasulphonic, bbls., works, 5c. per lb.
Betanaphthol, resublimed, dms., works, 17c. per lb.
Cresylic acid, domestic, tankcars, 15c. per gal.
Orthocresol, 30.4° C., min., M.P., dms., c.l., works, 2c. per lb.
l.c.l., works, 2c. per lb.
Orthocresol, 29° C., min., M.P., dms., c.l., works, 2c. per lb.
l.c.l., works, 2c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
133.8	133.0	132.7	127.3

(For Current Prices see Page 9)

Basic Products

Benzol — Relatively tight supply situation that has existed for some time continued to hold sway during last week. While stocks were still said to be "pretty tight," most domestic requirements were being met with current shipments. Export buyers were still not able to fully satisfy their needs.

Coaltar—Still in short supply despite efforts to increase production sufficiently to meet the demand. Contract buyers continued to absorb most available stocks. Prices remained firm, with crude coaltar, both coal-gas and water-gas types being quoted at $9.50 per drum in carload lots at the works, and the refined product quoted at $10 per drum, carloads, works.

Creosote Oil—Continued to be in tight supply situation, with regular contract customers absorbing almost the entire output for wood preservation. Prices remained firm at former levels.

Cresylic Acid—Supplies of this acid were reported to be extremely tight, and most producers could see no relief in sight for some time to come. The former low-price quoter on this acid has brought its price up to the level of competitors, making the inside figure now $1.10 per gallon in tankcars. Universal price for drums in carlots is now $1.16, and the less-carlots figure $1.19 f.o.b. the works, freight equalized with competitive points.

Naphthalene—Extremely heavy demand for phthalic anhydride production has continued to put a severe strain on the producers of crude naphthalene and most suppliers can see no relief in sight. Because of the shortage of supplies, movement of materials has been restricted almost entirely to regular contract buyers, and infrequent purchasers have had a very difficult time locating stocks. Seasonal demand for the refined flakes also continued at an above-average level.

Phenol—Consumption in the phenol-formaldehyde resin industry, as well as other major using trades, is absorbing the output of this material as fast as it can be produced, and non-contract buyers have considerable difficulty placing orders. Prices remained unchanged during the period under review.

Pyridin—No change in the market picture reported from this section of the market, with some of the refined pharmaceutical varieties in relatively free supply, but an otherwise generally tight supply situation reigning.

Toluol—One of the very few bright spots the entire coaltar chemicals market, this material was reported to be in free supply and available for immediate shipment. Buying interest has fallen off somewhat during the past few weeks, and consumers seem to be limiting their purchases to actual requirements. Current prices remained firm at former levels.

Xylol—Market reported to be in good balance with production almost exactly meeting the requirements of the lacquer and other essential consuming industries. Production was not sufficient to allow any stocks to be built up, and the firm tone of the price structure remained unchanged.

Chicago.—Material in the coaltar bases market is in fairly good call at steady prices, and the tone of the product is firm. Inquiry for benzol holds up well. Ruling prices exclusive of tax are:—Benzol, pure, in tankcars, 19c. per gallon, freight allowed up to 2c. per gallon; 2-degree toluol, same basis, 23c.; industrial xylol, same basis, 23c.; 5-degree xylol, same basis, 32c.; 3-degree xylol, same basis, 37c.; solvent naphtha, same basis, 23c.; creosote oil, grade 1, 17c.

Coke By-Products

Estimates of by-product coke-oven operations in the week ended May 3 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,172,224
Ammonia sulphate	lbs.	30,354,432
Benzol	gals.	3,825,150
Coaltar	gals.	14,190,080
Creosote oil	gals.	789,708
Naphthalene, crude	lbs.	1,875,558
Phenol	lbs.	222,105
Toluol	gals.	765,030
Xylol	gals.	172,749

Hydrogenated Solvents

Increased production, together with some slackening of buyer interest has resulted in some easement of the tight supply situation that held sway a month ago. Despite the active interest being evidenced in cyclohexanol by the oil trade and synthetic

For Late Market Developments, See Page 4

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resins industry, the supply situation for this product was described as "getting better," and the market for cyclohexanone was reported to be more in balance than it has been for some time. Except for the increase in prices on the part of one major producer reported last week, quotations have remained at former levels and the entire market has developed a firm tone.

Coaltar Acids

Anthranilic—Price structure retains the firm tone that has been persisting over the past month, with supplies of both grades continuing to be extremely short and movement of materials confined chiefly to regular contract customers in the dyestuff trade.

Betaoxynaphthoic—One major producer reports an advance of 10c. per pound in current quotations, with the price now being $1.05 per pound in barrels at the works.

Fumaric—No change in supply conditions reported over previous weeks, with almost the entire production going to regular contract consumers in the synthetic resin and dyestuff industries. The inventory position continues to be definitely tight, with prices remaining stable.

Gamma—Regular contract consumers continue to absorb most of the production of this acid, with stocks showing no tendency towards loosening and prices steady at former levels.

Maleic—Supply still not equal to the high demand and the protective coatings and synthetic resins industries are still calling for additional stocks. Market continues to show a firm tone, with prices steady at prevailing levels.

Malic—Current production is being readily taken up by the manufacturers of paints and dyestuffs, and has kept the supply situation fairly tight for some time. Demand has exceeded supplies and there has been no slackening of the tight buying conditions.

Paratoluidinmetasulphonic — Price advance of 5c. per pound reported by one major producer, with the current quotation at 85c. per pound in barrels at the works.

Other Intermediates

Anilin Oil—Increased production has placed this material in somewhat better supply situation than it was a month ago, with good miscellaneous consumer inquiry reported. Prices continue to be stable and most producers report stocks on hand for immediate shipment.

Betanaphthol—One major producer of the resublimed variety reported an increase of price amounting to 17c. per pound last week, with the current quotation being 72c. per pound in drums at the works. Production of all varieties continued to fall behind the heavy demand, with no change reported in the tight buying conditions. Export buyers continued to seek additional supplies, but found very little material for purchase on the open market.

Dimethylanilin—Increased production was striving to meet the requirements of all consumers, but market buying conditions were still reported to be very tight. No changes in price were reported.

Orthocresol—Major producers report a 2c. per pound price advance last week, with the 30.4 degree product now quoted at 24c. to 24½c. per pound in drums in carload lots at the works, and the 29 degree product now priced at 23c. per pound in drums in carlots, works.

Paracresol—Market reported to be in a fair state of balance, with one major producer currently quoting 50c. per pound in ton lots, works.

Paradichlorobenzene—Little change reported in this sector, with demand still exceeding production. Supplies were scarce, and the seasonal increase in demand was causing considerable tightening of the general supply situation. Producers could still see no relief before the end of the Summer.

Phthalic Anhydride — Supplies of this product continue to be extremely short despite the settlement of the strike at the plant of one of the major producers. Shortages of crude naphthalene supplies are reflected in this section of the market to such an extent that resumption of production at the previously strike-bound plant has brought no relief to the tight supply situation. High demand continues to

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be felt from the makers of alkyd resins, where the use of this product for hard lacquer finishes is steadily increasing.

Coaltar Colors

Demand for these products continued to run far ahead of supplies last week, with production facilities making every effort to expand sufficiently to place the market in free supply. However, shortages of many basic chemicals and intermediates were still hampering the efforts of manufacturers, and little hope was being held forth for any loosening of the situation in the near future. The general tone of the market was firm, with prices showing no inclination to move in either direction.

Army Research

—Continued from page 7

cine, i.e., immunology, sanitation, malaria control, venereal disease control, insect and rodent control, and respiratory and intestinal disease control methods, and also studies of new methods for use of present antibiotic agents, as well as the development of entirely new agents.

Future research in the field of fuels and lubricants will be devoted to study of the basic chemical and physical nature of fuels and lubricants, and the relation of these properties to the phenomena of lubrication, combustion and rust protection. In addition, many new synthetic materials which show promise as lubricants are being made available by industry. A number of these materials are currently being investigated for possible application as fire control instrument lubricants and as recoil and hydraulic oils. The future research program will include a continued investigation of these materials.

Rust Prevention

Before the war there was little commercial interest in rust preventive compounds, and consequently, no intensive investigation into the basic mechanism of rust prevention. However, with the advent of the war there was an immediate need for protective compounds to be used in shipping war materials to combat areas. After a considerable period of trial and error, satisfactory rust preventive compounds were developed. At the present time, it is still necessary to go through this lengthy and expensive trial and error procedure whenever a new material is needed. This is necessary because the basic data are still not available.

The initial phases of this program are underway and work will continue for a number of years in the future.

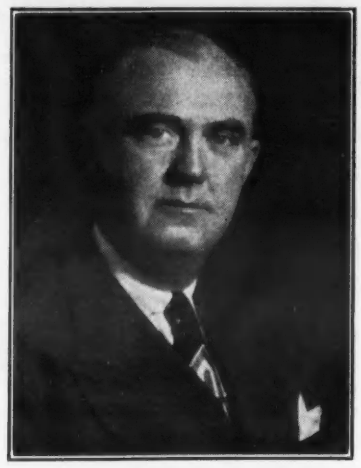
As to metals, plastics, rubber, adhesives, and cleaning and preserving materials, the program has this to say:—

"The materials research and development program is by nature relatively long-range. The future program will, for the most part, comprise the present projects and general categories of problems and investigations, with expansion and modification as changes or trends indicate. Increased emphasis will be placed on work in those fields where the development or improvement of essential ordnance items is seriously limited by lack of data or inadequate properties of presently known materials."

FTC Drops Ralston Purina Complaint

The Federal Trade Commission has dismissed without prejudice its complaint charging the Ralston Purina Company, St. Louis, with false and misleading advertising of Purina poultry feeds because the challenged advertising has been discontinued.

Amer. Potash Director



W. J. Murphy, vice-president in charge of sales for the American Potash & Chemical Corporation, New York, has been elected to the board of directors of the company. He has been associated with the firm since 1913.

Trade Briefs

Fertilizer was available in larger supplies in Belgium during 1946 than in the previous year, and nitrates and superphosphates were applied to the soil at normal prewar levels.

Carbide production in the Netherlands is now said to be sufficient to meet normal needs, but production of ammonia at the Hoogovens plant has been limited to half-capacity because of the coal shortage.

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TAR ACIDS
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Phenol, Technical 80%
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Cresol, Resin Grade
Cresol, Plasticizer Grade
Cresylic Acid
Xylenols
NAPHTHALENE
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Agricultural Chemicals

Basic fertilizer chemicals commanded the most attention during the past week. The season is ending with stocks short in ammonia nitrate, ammonia sulphate, cyanamide, potash, soda nitrate and superphosphate. In each instance demand has exceeded production and it is apparent that no important stocks are going to be carried into the new fertilizer year. Potash contract prices will be quoted lower at the works; one producer's revised quotations will become effective May 15. As buyers will pay the freight charges from works for potash, it will depend upon the distance the material has to be shipped as to whether the buyer is paying more or less for requirements. Soda nitrate has continued definitely tight owing to cutback domestic production and delayed arrivals from Chile.

Declines have featured the market for packing-house byproducts. Dried blood experienced a sharp drop in price. Bone meal was lower along with hoofmeal and tankage. Demand for these materials has shown an appreciable relaxation.

Buying interest has leaned toward conservatism in most of the insecticide and fungicide materials. The disposition is to cover minimum requirements and await developments. The season is in its initial stages at present, but suppliers are receiving rush orders.

Exports of fertilizers and fertilizer materials during February, 1947, amounted to 111,000 short tons, valued at $2,556,000, according to The National Fertilizer Association. Records of the Department of Commerce reveal that February exports were 14 percent lower than the tonnage reported for a year ago, but 130 percent higher than for February, 1945. Exports of ammonium sulphate and normal superphosphate were considerably higher than for the preceding February; shipments of "other nitrogenous chemicals," Florida land pebble rock, and concentrated superphosphate dropped substantially from a year ago.

Nitrogenates

Ammonia Sulphate—Buying conditions did not appear to be any easier, although it was stated that contract shipments were of better volume. Total exports in February amounted to 6,485 tons compared with 7,475 tons and 5,543 tons for the corresponding months in 1946 and 1945, respectively.

Bone Meal — Lower prices have been established for raw 4½ percent ammonia. There were sellers at $60 per ton, Chicago basis. Steamed feeding grade was also down at $65 per ton here and in Chicago. Relaxation of feed demand has weakened the market.

Calcium Cyanamide — Short stocks have kept shipments somewhat behind contract schedules and the market is winding up the season in a tight condition. Importations in February amounted to 14,546 tons, against 15,138 tons in February, last year, and 16,067 tons in 1945.

Castor Pomace—Contract shipments have constituted the week's movement of this material. No additional offerings have been reported. Importations of 907 bags of hoof and horn meal were noted last week.

Dried Blood—Sellers' views were reduced sharply and the market did not appear very steady at the close of the week. Stocks were available at $7.25 per unit ton here and at $7.00 in the West. It was stated that buying interest from the feed trade had relaxed appreciably.

Tankage—Prices declined 50c. per unit during the past week. Active demand has subsided and there was no support above the $7.00 level either here or in the West. The week's importations included 300 bags of liver meal, 2,035 greaves cakes and 508 bags of liver tankage from South America and Australia.

Phosphates

Phosphate Rock—Demand has remained at a high level for phosphate rock and the tight supply situation has not relaxed. Distribution has improved by the increase in boxcars and the combined movement has aggregated an unusually high tonnage. Plans for increasing output are still delayed through inability to secure construction parts in time. One producer has stopped mining, temporarily, in Florida owing to the removal of plant. Total exports of phosphate rock in February amounted to 51,552 tons against 56,187 tons for the same month last year, and 11,498 tons for February, 1945.

Superphosphate — Regardless of steady production, demand is keeping available stocks short. It is stated that tight supply conditions that have prevailed over recent months have prompted distributors to sustain their buying movement in order to have stocks to meet future requirements. The Bureau of the Census, in an official report, said that normal superphosphate production in February was the highest recorded for that month in the last five years and exceeded the previous high, February, 1946, by 12 percent, and that February production of concentrated superphosphate despite the short working month was 13 percent over January and 11 percent over February of last year.

Potashes

Demand has exceeded the amount available until May 15 and the supply condition has continued exceedingly tight. The price range for contracts of muriate 60 percent K_2O for the fertilizer year 1947-1948 is from 37½c. to 45.5c. per unit of K_2O bulk f.o.b. the works. The inside price will become effective in one major producing quarter on May 15, another at this price on June 1 and a third at the outside figure at the latter date.

Markets at Other Centers

Chicago.—Call for fertilizer materials has slackened a little and buyers now appear to be giving the market a chance to stabilize at somewhat lower prices. Also the general market tone is easier and some prices are lower. Blood was in firm call. Interest was fair in tankage. Bone materials were quiet and easy. Dried blood, principal grade was quoted at $7.25 to $7.75 per unit of ammonia. Tankage, feeding grade, $7.25 to $7.50 per unit; liquid stick, tankcar, $3.75 to $4; hoof meal, per unit, $7.25 to $7.50. Bone materials, steamed ground bone meal, 3 and 50, $55 per ton; cattle jaws, skulls and knuckles, $75 per ton; dry rendered tankage, hard pressed, $1.50 per unit; 50 percent meat and bone scrap, $91 to $92 per ton.

Insecticides

Conservative buying has continued to feature many of the insecticides and fungicide materials. It is stated that the urge to buy ahead, which brought favorable results during the war, is not reflected in current operations and the tendency is to take on minimum quantities. This disposition has caused concern in some major supply sources. At present, buyers are covering immediate wants and are sending in orders tagged "rush." This kind of trading may result in a congestion of shipments if a heavy infestation develops later in the season. Aggregate sales are reported close to the seasonal average but future shipments appear to have been neglected, temporarily at least, in some of the important items. No new price changes have been announced since the turn of the month.

Last year's board bill for the European corn borer cost American farmers at least $37,700,000 on conservative estimates, of which about $2,061,000 represented damage to sweet corn. Of the total loss estimated, 84 percent occured in four States—Iowa, Illinois, Indiana and Pennsylvania. Farmers of Iowa and Illinois alone fed about $27,000,000 worth of corn to borers in 1946. The estimates are based upon recently completed surveys by the Bureau of Entomology and Plant Quarantine and cooperating state agencies. Corn borer loss estimates made by the Bureau in comparable areas were $28,700,000 in 1946, $37,000,000 for 1945 and $22,700,000 for 1944. It is pointed out that the European corn borer has now spread clear across the corn belt proper, having appeared in 1946 for the first time in North and South Dakota.

Sulphur and Pyrites

Sulphur has continued to command attention for industrial and agricultural uses and a sizable tonnage is being shipped from mines. The problem of freight car shortage seems to have been eliminated and the movement to consumers has come through on time. An adequate stockpile has been maintained to meet requirements promptly. No additional importations of Spanish pyrites was reported. The market was described as firm with prices unchanged.

Market Trends

Prices Advanced

None

Prices Reduced

Bone meal, raw, 4½ percent ammonia, Chicago, $15 per ton.
feeding grade, New York, $5 per ton.
Chicago, $10 per ton.
Dried blood, New York, 75c. per unit ton.
Chicago, $1 per unit ton.
Hoofmeal, 50c. per unit ton.
Tankage, 50c. per unit ton.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
71.5	71.5	71.5	71.8

(For Current Prices see Page 9)

SULPHUR

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For Late Market Developments, See Page 4

OPD—5-12-1947 52

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Drugs and Fine Chemicals

So far as price movements were concerned, the past week developed little that was new in the market for drugs and fine chemicals. Stability appeared to be the dominant characteristic of quotations on the majority of materials, a condition greatly assisted by the relatively conservative stocks of many articles and regardless of the fact that some decrease in demand has taken place.

A higher market prevailed on santonin, the result of good demand and a tight situation in supply. Large quantities were almost impossible to obtain. On the decline side of developments, castor beans were cheaper in Brazil. New crop goods have not begun to move and until they do, any quotation from Brazil will be nominal so far as importers here are concerned. Meanwhile, substantial quantities of beans continued to reach this market, being goods bought a considerable time back. Another development on the down side of price movements was a readjustment of silver nitrate prices to conform with bullion recently prevailing. The 2c. drop in bullion prices last week foreshadows a further decline in nitrate. Other silver salts lacked change.

The Reconstruction Finance Corporation reported a sale of 190 bales of agar at prices averaging slightly higher than those last obtained by that agency. Brucine seemed to be moving into a slightly improved position and some think prices will ease moderately if the gain expected in supplies be realized. The immediate position was still tight.

Blackstrap molasses sold by government agency has been a declining item in alcohol producers' costs. No further lots were offered last week but more will be sold in the future. Other costs for producing alcohol were maintained last week. Demand was excellent.

Butyl alcohol and acetate, wherever made, were 2c. lower in price. All solvents were subject to a demand calculated to prevent any accumulation of a substantial inventory and, hence, future developments in values appeared to hang more on fluctuating costs of production than on any materials shift in sales volume.

Market Trends

Prices Advanced

Santonin, $5 per kilo.

Prices Reduced

Butyl acetate, 2c. per lb.
alcohol, 2c. per lb.
Castor beans, $47 per long ton.
Silver bullion, 2c. per oz.
nitrate, 1c. per oz.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
252.7	252.7	253.6	211.0

(For Current Prices see Page 9)

Acetanilide—Not too plentiful supplies continued to prevail. The basic position of the article was affected by the not plentiful stocks of raw material. As to takings on behalf of manufacturing and other consumers, the movement compared favorably with that in recent weeks.

Acetoacetanilide—Basically firm in all respects and in constant and generally satisfactory movement into consuming channels. Production costs remain comparatively high and raw materials were not too readily obtainable in superior quantities.

Acetophenetidin—The market was not exceptionally active but it did have a steady sort of demand and supply that made for substantial stability in all its aspects.

Acid, Benzoic—The USP acid moved steadily with little fluctuation in the total quantities sent to manufacturing and other consumers. Prices were well stabilized and there was little in the way of local competition between suppliers—at least so far as prices were concerned.

Acid, Citric—The outlook for an excellent season was mainly favorable. More acid is likely to be available this year and, also, more acid is likely to be used since a rise in sugar allocated to the bottled beverage industry will permit an expansion in its output. How London knows much about it is a question but a report from there has stated that a further advance in American prices was likely. Nothing in this respect is confirmable here although the market is definitely very firm at the recent price rise.

Acid, Hydrobromic—The quality of this market was its steadiness. Prices have prevailed unchanged for a long period of time and sellers stated last week that they could foresee no change in that aspect of the market so far as the nearby future was concerned. Demand was routine.

Acid, Hypophosphorus — Demand was routine and mainly on jobbing account but the price position of USP merchandise was excellent. It was steady to firm and little disturbed by the influence of competition.

Acid, Tannic—Demand was very good. It showed some gain in some quarters but in the main the total movement was about equal to that in recent weeks and said movement kept prices to steady position. Production costs have not changed much if any in lower direction.

Acid, Salicylic—Raw material was not freely available in substantial quantities and that fact alone kept salicylic acid and all salicylates to a strong position. To that influence must be added the excellence of demand. Combined, they were more than enough to keep the market in very firm position throughout the past week.

Acid, Thioglycolic—Present prices were steady at the levels set up at the time they changed last—which change was a decline. The market was keenly competitive.

Aconitine—The market continued strong but it lacked further change as to the price structure. Little competition is possible at this time and all sellers took a position of reserve in proposing business.

Adeps Lanae—Reasonably steady prices were the rule last week. Of late, competition has been less aggressive and the market has tended to move into a state of price equilibrium. Supplies were entirely ample.

Agar—The Reconstruction Finance Corporation has disposed of another lot of Japanese agar brought here under government auspices. The sale involved 190 bales on bids submitted under terms set April 2. Three bidders were successful. The lowest bid was $2.31 per pound and the highest was $2.41. The average paid was $2.366, which compares with the previous average of $2.26. All of the lot went to New York houses.

Alcohol—Last sales of government sold blackstrap molasses were made at 19.97c. per gallon—a decline from the last previously paid price. Quite a range of prices was obtained according to the lot sold and the buyer. One lot of 1,350,000 gallons, 25.13c.; another, 1,400,000 gallons, 21.90c.; a third, 1,800,000 gallons, 28.08c.; and a fourth, 1,800,000 gallons, 19.97c. The lowest price paid previously was 26.40c.

It will thus be seen that the trend in blackstrap prices, in its broadest sense, is downward and that the raw material costs of the alcohol makers is varying at least to the extent in the differences in the prices they are paying for blackstrap. Corn prices, on the other hand, have shown some stability of late and have not changed enough to bring about a change in the quotations on butyl compounds.

Aminopyrene—The market was routine in activity and some called it comparatively quiet at the moment. However, most users carry stocks that are but conservative in size and this makes at least for a steady price position and a deal of stability in most quarters.

Ammonia Carbonate—Stable prices was the general report. Also, stable demand from a routine variety of manufacturing consumers of the USP chemical.

Ammonia Chloride—The USP goods were steady but not especially active except that the movement was in line with normality and contributed firm undertones to both market and prices.

Amyl Chloride—The market is being apparently maintained in well stabilized price position. Current quotations are of long standing; the

For Late Market Developments, See Page 4

OPD—5-12-1947 53

ALKALOIDS

GLUCOSIDES — DRUG EXTRACTIVES

1917

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ARECOLINE
ASPIDOSPERMINE
ATROPINE
BERBERINE
CHRYSAROBIN
COLCHICINE
DIGITALIN
EPHEDRINE
ESERINE
HOMATROPINE
HYDRASTINE
HYOSCINE
HYOSCYAMINE
LOBELINE
OUABAIN
PHYSOSTIGMINE
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sources of supply indicate no change in the general situation.

Amyl Ether—This is another article of substantial price stability. The demand has been well maintained for some time past and the outlook for satisfactory sales volume was still said to be encouraging.

Argols—Arrivals of this article have not been substantial in size in recent weeks. In fact, they have been irregular most of the time.

Atropine—Sulphate was available at $8.75 per ounce and the market was strong because of the adverse situation as to supplies in general. Alkaloid held in similar position at $10.65.

Bismuth Metal and Salts—Movement of the major salts was good and business was done at prices exceptionally firm throughout the period. Metal quotations were firmly maintained and supplies were not too plentiful because of the moderate results in recovery operations.

Borax—Stability has been the rule on prices since the leading producers of this article established schedules early in the year. Buyers were reported taking contract tenders with reasonable promptness and new business for prompt delivery has looked up, if anything. The price position continued to be well stabilized in all quarters.

Butyl Acetate, Alcohol—Prices on these solvents, wherever made, were reduced 2c. per pound. Tanks became 29c.; tankwagons, 29½c.; drums, carlots, 30½c.; less carlots, 31½c.

Calcium Mandelate—Producers confirm May prices as being unchanged and intimate that the main characteristic of the market at this time is its general steadiness in price and consuming request.

Castor Oil—Although practically no offerings of new crop beans are reaching this market from Brazil, postings received here and covering price ideas—not offerings—made the market on new crop lower at $203 to $205 per long ton, f.o.b. Brazilian ports, being a nominal position. Spot prices remained unchanged. Stocks of oil were more readily obtainable since the rise in importations of beans has permitted an improvement in the size of output.

Arrivals of beans last week totaled 59,755 bags, or 8,913,250 pounds, which compares with 13,121 bags, or 1,968,150 pounds arrived in the previous week, and 62,834 bags, or 9,425,100 pounds landed in the corresponding week in 1946.

Total arrivals' since January 1 this year reached 682,586 bags or 102,387,900 pounds, comparing with 606,319 bags, or 90,947,850 pounds arrived in the corresponding period, 1946.

Cinchophen — Leading producers confirmed the market as being quotably unchanged last week and intimated that values in May were likely to continue in well stabilized position. Demand was about normal and deliveries were on a satisfactory basis.

Cocoa Butter—The market at 57c. to 58c. per pound was reasonably steady but the recent declines in the prices on beans continued to have an easing effect in the article's general market position.

Codliver Oil — Production figures coming from Norway indicate that the catch in fish has been large and that production of oil runs well ahead of the record year of 1946. According to the latest figures, the catch in fish has totaled 158,262 tons, compared with 133,557 tons a year ago. Production of codliver oil has reached 83,048 hectolitres against 69,987 hectoliters a year ago. In terms of barrels, the output this year is approximately 73,082 barrels, compared with 61,588 barrels a year ago.

The sharp rise in 1947 production has not been accompanied by lower prices in the Norwegian market. In spite of the improvement in supplies, prices are very firm in Norwegian quarters, where an excellent demand is said to exist.

Corn Syrup—No further change came in prices on this article, and in carlots it sold at $5.65 per 100 pounds; less than carlots, $5.80. These prices prevailed on goods packed in barrels or drums. The general market undertone continued to be rather easy and price competition tended to increase.

Dimethyl Phthalate—Tanks were priced at 21c. per pound; drums, car-

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lots; 22¼c.; less than carlots, 23c. And the market was very firm in undertone and no tendency to shade quoted prices was reported last week. Demand was good to excellent and little surplus was being accumulated.

Fishliver Oils—Stocks were excellent in size and the market continued to be in highly competitive position. Open quotations have not changed locally of late but reports lead to the inference that some quarters might shade prices occasionally when attractive business was proposed.

Formaldehyde — Demand continued to take current production in high volume, contributing strength to the market generally. Production of raw material has been at high levels and continues substantial in size. Prices on formaldehyde prevailed in well stabilized position.

Glycerin—According to the latest data on glycerin operations, covering the month of February in comparison with January, production and consumption gained in February but stocks at the end of that month were smaller than on January 31.

The data comprise operations in chemically pure, high gravity and yellow distilled combined, and crude glycerin. The total production of all kinds of glycerin in February was 33,580,000 pounds. In January it was 32,123,000 pounds. February production gained 1,457,000 pounds over January.

Consumption of all kinds of glycerin in February totaled 31,597,000 pounds. In January the total was 30,879,000 pounds. February consumption recorded an increase of 718,000 pounds in February over that in January.

Stocks of all kinds of glycerin at the end of February totaled 42,132,000 pounds. Those on hand at the end of January totaled 42,388,000 pounds. Stocks on February 28 were 256,000 pounds less than on January 31.

The data above reveals that the gain in production in February, compared with the gain in February consumption, was 739,000 pounds on the side of production. This meant that while more goods were consumed in February than in January, the gain in production in February, compared with January, was far larger than the increase in consumption. Both statistical positions improved in February but the improvement in production was greater than that in consumption.

Broken down into the three categories, the data develop the following points:—In chemically-pure glycerin, the increase in February production over that in January was 911,000 pounds. The increase in high gravity and yellow distilled glycerins combined in February was 372,000 pounds over that in January. And in crude glycerin, February production was 372,000 pounds less than the output in January.

As to consumption, that of chemically pure glycerin was 825,000 pounds less in February than the January consumption. In high gravity and yellow distilled glycerins combined, February consumption was 222,000 pounds less than that in January. And in crude glycerin, February consumption increased 765,000 pounds over the January figures.

Foreign glycerin resumed arrival last week. During the period, 37 drums reached here from India and 27 drums came in from Australia.

Hydrogen Peroxide—The residue of demand left of the total prevailing during the war still required highly substantial deliveries of this article and business during the past week matched the excellent totals prevailing for some time past. The price situation held firm.

Isopropyl Acetate — Consumption shows no decrease. Manufacturing "consumers" requirements account for practically all of production current at this time, thus preventing the creation of a surplus likely, eventually, to affect prices adversely. Also, production cost shows no contraction.

Magnesia—Calcined and carbonate moved well. Though not expansive, the needs of buyers were well maintained and were in a volume productive of substantial strength in prices and worked toward the confinement of competition to a very small part in market transactions.

Menthol — The market continued steady in price and displayed but a comparatively small amount of activity on the part of major buyers for

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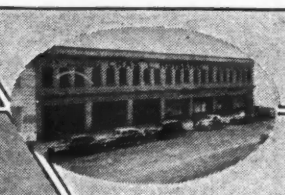

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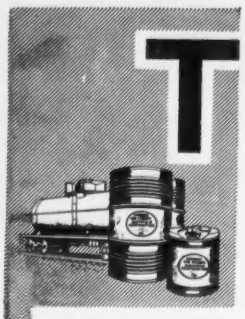

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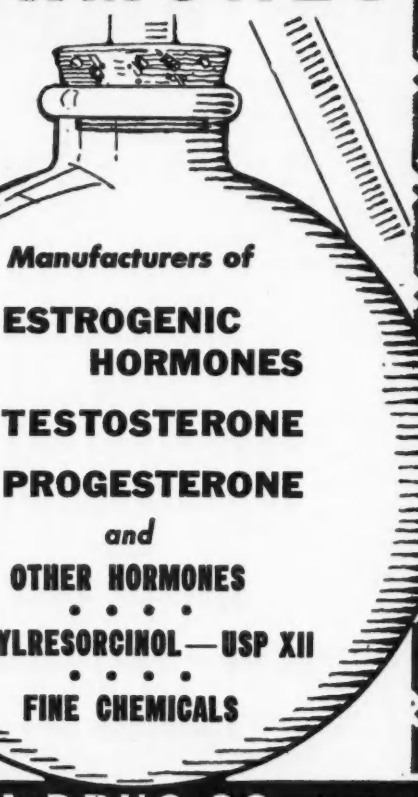

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consumption. Quotations reported from the Brazilian market showed little change nor was a greater tendency toward competition reported in advices from the source.

Mercurials—The quicksilver market had a tendency to sag on prices last week although no actual decline took place in open quotations. The mercurial group held free from change and was, apparently, a steady entity under the influence of good demand for the major items.

Molasses—Blackstrap prices, as last obtained in government sales to the alcohol trade, ranged 19.97c. to 28.08c. per gallon. The minimum price obtained on the last previous sale by the government was 24.40c. For some time past each sale has been a decline from the previous transaction price obtained.

Quinine — Since there was little quinine obtainable, little business could be done. The question as to whether quinine had even been subject to an import duty was raised last week and investigation showed that it has been duty free since July 1, 1879. Prior to that date a duty of 20 percent ad valorem prevailed on quinine sulphate and all other salts were dutiable at 45 percent.

Saccharin—Stocks were none too plentiful on the open market but production of the leading producer appears well to meet his engagements and the declaration that prices will not change now remained in force.

Santonin — Excellent consumption has created a tight situation in supply and prices at $175 to $185 per kilo are higher and stronger.

Silver—Silver nitrate prices were 1c. lower at 49⅝c. per ounce for 2,500 ounces packed in 250 ounce bottles; 1,000 ounces, 49⅞c.; 500 ounces, 50⅛c.; single 250 ounce bottles, 50⅜c. This reflects the recent declines that brought bullion to 73¾c. per ounce. Bullion declined 2c. more last week, reaching 71¾c., a price but 1c. above the low for the year.

Silver Price Range

	Per ounce	
	New York	London
High	Mar. 6—86¼c.	Jan. 2—55½d.
Low	Jan. 20—70⅝c.	Feb. 5—44d.

Trade Briefs

Imperial Chemical Industries, Great Britain, has started large-scale production of the new anti-malarial, paludrine, and expects to have it well under way by the end of the year.

Council on Pharmacy and Chemistry of the American Medical Association has accepted "sulfathalidine" phthalylsulfathiazole, the new nontoxic, smaller dosage intestinal sulfonamide developed by the medical research division of Sharp & Dohme, Inc., pharmaceutical manufacturer, Philadelphia.

Robert M. Anstett has joined Bristol-Myers Company, pharmaceutical manufacturer, New York, as specialist in trademarks and patents. Mr. Anstett, a member of the New York State Bar Association, comes to Bristol-Myers after several years' experience with Simpson, Thacher & Bartlett and Kenyon & Kenyon, New York.

Drugs, pharmaceutical specialties and cosmetics imports into Chile were valued at $1,875,000 (U. S.) during the first ten months of 1946, an increase of 12 percent over the like period of 1945. Value of exports of these products declined to $70,000, about 25 percent less than the comparable amount for 1945.

Innis, Speiden Plans Increased Exports

Innis, Speiden & Co., chemicals manufacturer, New York, formulated plans for increased exports of chemicals, gums and waxes, pending the results of increased production facilities, at a recent meeting of the sales and export executives.

Poland to Export Arsenic

Arsenic exports of 427 metric tons have been approved by the Polish Central Chemical Board. Allocations include 257 metric tons to Great Britain, 100 tons to South America, 50 tons to the United States and 20 tons to Denmark.

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Pyridine Compounds Possibilities Listed

Addressing a meeting last week of the Wisconsin section of the American Chemical Society, Dr. F. E. Cislak, research director of the Reilly Tar & Chemical Company, Indianapolis, said that vitally important products, ranging from vitamins and new drugs to a remarkable new synthetic rubber, are resulting from exploitation of pyridine compounds, a hitherto neglected class of coaltar chemicals.

Virtually ignored by chemists until recently, pyridines are now being converted into vitamins, local anesthetics, antiseptics, sulfa drugs, films for waterproofing cloth and a medicine that soothes the spasms of hayfever, he declared, and asserted that a new synthetic rubber made from vinylpyridine is said to be the best substitute for natural rubber yet developed.

Pyridine chemicals also will help save tremendous amounts of steel, according to Dr. Cislak, who explained that when steel is rolled into sheets, or drawn into wire and rods, it must be dipped into an acid bath to remove scales from its surface. While the acid dissolves the scale, it also attacks the steel underneath, he pointed out, but when pyridine compounds are added to the bath only the scale is removed.

A.Ph.A. Section Studies New Trends

Recent trends in medicine and pharmacy were discussed at a conference sponsored by the Pittsburgh branch of the American Pharmaceutical Association in the auditorium of the Mellon Institute of the University of Pittsburgh, May 5.

Dr. Melvin W. Green, director of the national association's laboratory, said the trend has been away from emperically used drugs of botanical origin to potent organic chemical drugs.

"Because of the shift of manufacturing to the large manufacturing establishment," Dr. Green said, "the pharmacist must depend even more on adequate standards for drugs, standards established largely by the United States Pharmacopoeia and the National Formulary."

Don Franke, chief pharmacist at the University of Michigan hospital, discussed the most recent application of pharmaceutical research in the filling of prescriptions and said that the pharmacist must aid the physician and the patient by compounding the newer therapeutic agents in a form to insure their most effective use.

Consolidated Drug Buys Veterinary Medicines Firm

The Dr. Sylvester Medicine Company, manufacturer of veterinary medicines, New Orleans, has been sold to the Consolidated Drug Company, also New Orleans. Originated in Philadelphia, the business was transferred to New Orleans in 1894, and its products have been used throughout the Southern States for the past fifty years.

The business will continue to be operated as the Dr. Sylvester Medicine Company division of the Consolidated Drug Company, with the trained personnel remaining in charge of the various sections.

Trade Briefs

Ortho Pharmaceutical Company has moved its plant and offices from Linden to Raritan, N. J.

Insulin, extracted from the bladder and glands of fish, is being produced in the amount of between 500,000 and 600,000 units monthly in North Germany.

Thompson-Hayward Chemical Company, Kansas City, Mo., has prepared technical bulletins describing its new series of insecticides under the name 'Tri-6,' and bulletins entitled 'Ded-Weed for Turf' and 'Ded-Weed for Agriculture' which are available upon request.

Hinde & Dauch Paper Company, Sandusky, Ohio, has published a new book, "The Beginning of a Great Industry", which details the rise of Hinde & Dauch at the same time as it presents an illustrated story of the growth of the corrugated shipping box industry.

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ALCOHOL, DENATURED—200 dms, P R Alcohol Co, San Juan

ANNATTO SEED—112 bgs, H Kohnstamm & Co, Kingston—95 bgs, G T German, Kingston—224 bgs, D Steengrafe, Kingston—100 bgs, Trujillo—60 bgs, J A Manton & Co, Kingston

ANTIMONY ORE—190 bgs, W R Grace & Co, Arica

ARSENIC—93 bbls, American Smelting & Refining Co, Tampico

BABASSU KERNELS—3,333 bgs, Spencer Kellogg & Sons, Belem—1,667 bgs, General Foods Corp, S Luiz Maranhao

BABASSU OIL—220 tons, General Foods Corp, S Luiz Maranhao

BALATA—242 bls, 32 cs, H A Astlett & Co, Belem—19 cs, Earle Bros, Belem—225 cs, Herman Weber & Co, Belem—33 cs, Littlejohn & Co, Belem—29 bgs, H A Astlett & Co, Cartagena—156 blocks, Herman Weber & Co, Belem

BALSAM COPAIBA—5 dms, Lautier Fils, Inc, Belem—35 dms, Ungerer & Co, Belem—4 dms, W R Grace & Co, Cristobal

BALSAM TOLU—50 cs, Wessel, Duval & Co, Barranquilla

BARBASCO ROOT—5,891 bgs, Otis Astoria Corp, Rio Janeiro

BARK, MEDICINAL—299 bls, S B Penick & Co, San Antonio

BEES WAX—25 bgs, Bankers Trust Co, Trujillo—35 bgs, Will & Baumer Candle Co, Port au Prince—30 bgs, E Vadello Ruiz, Havana—43 bgs, Havana—31 bgs, Port Barrios—10 bgs, Geck Trading Corp, Havana—84 bgs, Cathedral Candle Co, Porto Alegre—167 bgs, D C Andrews & Co, Porto Alegre—112 bgs, Wax & Rosin Products, Inc, Porto Alegre—40 bgs, F Baillargeon, Montreal, Porto Alegre—40 bgs, F Baillargeon, Montreal, Rio Grande—30 bgs, Bank of the Manhattan Co, Havana

BILE—10 cs, A Maschmeyer, jr, Inc, Barranquilla

BISMUTH, REFINED—118 bars, Cerro de Pasco Copper Corp, Callao

BITUMEN—3 dms, Asiatic Petroleum Corp, Curacao

BONES—123 bgs, International Commercial Co, Inc, Buenos Aires

CACTUS—8 crates, Parke Davis & Co, Detroit, Kingston

CADMIUM—14 cs, M Lissauer, Melbourne

CANTHARIDES—8 cs, Amtorg Trading Corp, Odessa

CARAWAY SEED—100 bgs, Louis Furth, Inc, Rotterdam

CARDAMOM—23 cs, East Asiatic Co, Puerto Barrios—28 cs, W E Martin Co, Puerto Barrios

CARNAUBA WAX—739 bgs, S C Johnson & Son, Belem—44 bgs, Cornelis Products Corp, Belem—110 bgs, E A Bromund & Co, Belem—77 bgs, Wm M Allison & Co, Belem—225 bgs, R T French Co, Rochester, Belem—252 bgs, Wm Diehl & Co, Belem—111 bgs, Davies Irwin, Montreal, Rio Janeiro—210 bgs, S C Johnson & Son, Bahia—55 bgs, The Simoniz Co, Chicago, Rio Janeiro—112 bgs, R M Hollingshead Co, Fortaleza—55 bgs, F B Ross & Co, Fortaleza—77 bgs, Innis, Speiden & Co, Fortaleza—33 bgs, W R Grace & Co, Fortaleza—112 bgs, The Simoniz Co, Chicago, Fortaleza—1,090 bgs, S C Johnson & Son, Fortaleza

CASSIA—600 bls, A G Dunn, Hongkong

CASSIA OIL—10 dms, S B Penick & Co, Hongkong—6 dms, Dodge & Olcott Co, Hongkong

CASTOR BEANS—7,752 bgs, Bunge Corp, Fortaleza—16,596 bgs, Spencer Kellogg & Sons, Fortaleza—5,516 bgs, Baker Castor Oil Co, Fortaleza—4,652 bgs, Bunge Corp, Belem—505 bgs, Spencer Kellogg & Sons, Port au Prince—1,644 bgs, Baker Castor Oil Co, Port au Prince—2,000 bgs, Baker Castor Oil Co, Recife—3,330 bgs, Bunge Corp, Recife—1,700 bgs, Sherwin Williams Co, Cleveland, Bahia—16,140 bgs, Baker Castor Oil Co, Bahia—870 bgs, Baker Castor Oil Co, Rio Janeiro—850 bgs, Spencer Kellogg & Sons, Bahia—200 bgs, Bank of London & South America, S Luiz Maranhao

CHICLE GUM—632 bls, Mexican Exploitation Co, Vera Cruz—564 bls, Chicle Development Co, Puerto Barrios

CHILLIES—83 bgs, Becker-Mayer Seed Co, Port au Prince

CHINA CLAY—45 bgs, R T French Co, Rochester, Hull

CINNAMON BARK OIL—2 cs, Volkart Bros, Colombo

COALTAR ACID—68 dms, Merck & Co, Hull

COCONUT OIL—541 tons, Philippine Refining Co, Inc, Manila

COPAL GUM—73 bgs, Gillespie-Rogers-Pyatt Co, Manila—97 bgs, O G Innes Corp, Manila

COPRA—1,000 tons, Southern Cotton Oil Co, New Orleans, Legaspi—950 tons, Magnolia Provision Co, Houston, Dumaguete—750 tons, Spencer Kellogg & Sons, Cebu

CORIANDER SEED—6 bgs, E Meer & Co, Khorramshahi

COTTON LINTERS—122 bls, Gelsmar & Co, Santos

COTTONSEED HULL FIBER—326 bls, Norton & Ellis, Santos

CRESYLIC ACID—220 dms, Guaranty Trust Co, Manchester—21 dms, Merck & Co, Hull

CUBE POWDER—320 bgs, Asher, Kates & Co, Callao—Root, 122 bls, Morris Hess & Co, Callao

CYMBARUM OIL—9 dms, Orbis Products Corp, Rio Janeiro—60 dms, Dodge & Olcott Co, Rio Janeiro

DAMMAR GUM—20 cs, W R Grace & Co, Singapore—350 bgs, Gillespie-Rogers-Pyatt Co, Singapore—140 bgs, O G Innes Corp, Singapore—100 cs, Thurston & Braidich, Singapore—35 bgs, H P Winter & Co, Singapore—140 bgs, U S Industrial Chemicals, Inc, Singapore

DERRIS ROOT—40 bls, J Berlage & Co, Singapore—80 bls, S B Penick & Co, Singapore—40 bls, John Powell & Co, Singapore—100 bls, H A Astlett & Co, Singapore

DIVI-DIVI—410 bgs, Cortez Trading Co, Cristobal—487 bgs, Royal Bank of Canada, Barranquilla

DYES, ANILIN—45 dms, Geigy & Co, Havre—20 dms, Sandoz Chemical Works, Havre—74 dms, Ciba Co, Antwerp

EARTH COLORS—200 bgs, J Lee Smith & Co, Rotterdam

ELEMI GUM—14 dms, U S Industrial Chemicals, Inc, Manila—36 cs, Thurston & Braidich, Manila

ESSENTIAL OIL—25 dms, Geo Uhe & Co, Marseilles—2 dms, A Chiris & Co, Marseilles—4 dms, Dodge & Olcott Co, Vera Cruz—8 dms, Roure Dupont, Inc, Tangier—4 dms, Fritzsche Bros, Seville

EUCALYPTOL—6 cs, S B Penick & Co, Adelaide

FERTILIZER—946 bgs, Vita Master Milling Co, Cumana

FISH SOUNDS—100 bls, Fulton Freight Forwarding Co, Curacao

FLINT PEBBLES—1,084 bgs, Buebendorf Bros, Havre

FUEL OIL—109,982 bbls, Standard Oil Co N J, Aruba—10,000 bbls, Asiatic Petroleum Corp, Curacao—61,420 bbls, Asiatic Petroleum Corp, Aruba

GALBANUM GUM—25 cs, E Meer & Co, Khorramshahi

GALL—3 dms, Chase National Bank, Adelaide—2 dms, Bank of New South Wales, Adelaide—10 cs, Bank of New South Wales, Brisbane—6 trcs, American Ferment Co, Santos

GALLNUTS—252 bgs, Mallinckrodt Chemical Works, Hongkong—504 bgs, Zinsser & Co, Hongkong

GELATIN—25 bls, Merman & Schwiers, Antwerp—Sheets, 60 cs, International Selling Corp, Antwerp

GINGER—57 bgs, Knickerbocker Mills Co, Kingston—48 bgs, Victory Shipping Co, Kingston—113 bgs, W L Willmer, Kingston

GLANDS—16 bbls, Universal Transcontinent Corp, Buenos Aires—68 bbls, International Commercial Co, Buenos Aires—19 trcs, Charles Hollinshead & Co, Montevideo

GLUCOSE—340 bbls, Imperial Bank of Canada, Tampico

GLUE—600 bgs, Transatlantic Animal By-Products Co, Santos

GLUESTOCK—77 bls, Daarmstadt, Scott & Courtney, Rio Janeiro

GLYCERIN—37 dms, Gold Medal Haarlem Oil Co Karachi—19 dms, Adelaide— 8 dms, Commercial Bank of Australia, Melbourne

GREAVES—2,035 cakes, Riverdale Products Co, Chicago, Buenos Aires

GYPSUM—1,775 tons, National Gypsum Co, Walton—2,150 tons, Newark Plaster Co, Walton—5,136 tons, United States Gypsum Co, Walton

HOOF & HORN MEAL—907 bgs, Buenos Aires

ILMENITE ORE—9,265 tons, National Lead Co, Koilthottam

IRON OXIDE—2,240 bgs, C J Osborn & Co, Southampton

JABORANDI LEAVES—99 bls, Inland Alkaloid Co, Belem

KOLA NUTS—6 bgs, Victory Shipping Co, Kingston

LEMONGRASS OIL—1 dm, Dodge & Olcott Co, Cristobal

LITHARGE—500 cs, Reichhold Chemical, Inc, Tampico

LINSEED OIL—1,700 tons, Commodity Credit Corp, Buenos Aires—136 tons, Zimmerman, Alderson, Carr Co, Rotterdam

LIVERMEAL—300 bgs, Bank of Montreal, Brisbane

LOGWOOD STRAIGHTS—1 lot, W & A Leaman, Kingston

MACE—40 cs, C T Wilson & Co, Singapore

MAGNESITE, CALCINED—1,200 bgs, Golwynne Chemical Corp, Madras

MANGANESE ORE—2,000 tons, E J Lavino & Co, Vizagapatam

MANGROVE BARK—1,259 bgs, Hammond & Carpenter, Mombassa—1,400 bgs, Van Norden & Archibald, Zanzibar—5,080 bgs, Bingham & Co, Mikindani

MARJORAM LEAVES—235 bgs, Ludwig Mueller & Co, Arica

MENTHOL—69 cs, Volkart Bros, Santos

MICA—242 cs, Sussex Trading Co, Rio de Janeiro—474 cs, Cosmopolitan Trading Corp, Rio de Janeiro—1 cs, Eugene Munsell & Co, Rio de Janeiro—19 cs, Diamond Drill Carbon Co, Rio de Janeiro—65 cs, Ford Radio & Mica Corp, Rio de Janeiro—248 cs, Otto Gerdau Co, Rio de Janeiro—191 cs, A O Schoonmaker Insulation Co, Rio de Janeiro—41 cs, United Mineral & Chemical Co, Rio de Janeiro

MOLASSES—1,115,966 gals, Commercial Molasses Corp, Guantanamo—282,047 gals, Commercial Molasses Corp, Santiago

MUCUGE GUM—322 bgs, L A Dreyfus Co, Bahia

MYROBALANS, POWDERED — 140 bgs, Vermilye Co, Hull

NAPHTHALENE—601 bgs, The Ciba Co, Antwerp

NUX VOMICA—338 bgs, Volkart Bros, Saigon—1,781 bgs, Bankers Trust Co, Saigon

OCHER—500 bgs, Smith Chemical & Color Co, Durban

OITICICA OIL—51 dms, W R Grace & Co, Rio de Janeiro

ORANGE PEEL—745 bgs, Guaranty Trust Co, Cape Haitien—596 bgs, Montreal, Cape Haitien

OURICURY WAX—160 bgs, R T French Co, Rochester, Bahia—134 bgs, S C Johnson & Son, Bahia—124 bgs, W R Grace & Co, Bahia—280 bgs, Cornelius Product Co, Bahia—56 bgs, Herman Gottesman, Bahia—56 bgs, F B Ross & Co, Bahia—56 bgs, Wax & Rosin Products, Inc, Bahia

PAPAIN—167 cs, American Ferment Co, Mombassa

PATCHOULI OIL—4 dms, Bush Aromatics, Inc, Penang

PEPPER, BLACK—27 bgs, F C Gerlach, Vera Cruz—25 bgs, Vera Cruz—225 bgs, J Berlage & Co, Singapore—280 bgs, Avia Co, Singapore—225 bgs, Singapore—471 bgs, Otto Gerdau Co, Singapore—672 bgs, Littlejohn & Co, Singapore—504 bgs, C T Wilson & Co, Singapore—White, 50 bgs, A G Dunn, Hongkong

PERILLO GUM—60 bgs, J M Santo Domingo & Co, Barranquilla—58 cs. 125 bgs, Chicle Development Co, Barranquilla

PETITGRAIN OIL—25 dms, Dodge & Olcott Co, Buenos Aires—6 dms, New York Trust Co, Buenos Aires—37 dms, Irving Trust Co. Montevideo—21 dms, J D Walsh Co, Montevideo

PETROLEUM, CRUDE — 124,239 bbls, Standard Oil Co, N J, Puerto La Cruz—122,562 bbls, Socony Vacuum Oil Co. Puerto La Cruz—217,545 bbls, Standard Oil Co, N J, Cartagena—105,065 bbls, Standard Oil Co, N J, Las Piedras—106,357 bbls, Standard Oil Co, N J, Caripito

PIMENTO—100 bgs, A G Dunn, Kingston—48 bgs, Victory Shipping Co, Kingston—78 bgs, Corn Exchange Bank, Kingston

POPPYSEED—100 bgs, Louis Furth, Inc, Rotterdam

PYRETHRUM FLOWERS—552 bls, Dodge & Olcott Co, Porto Alegre

QUASSIA CHIPS—540 bgs, S B Penick & Co, Kingston—540 bgs, R J Prentiss & Co, Kingston

QUASSIA LOGS—168,000 lbs, Continental Commodities Corp, Kingston

QUEBRACHO EXTRACT — 2,000 bgs, Vermilye Co, Hull—2,051 bgs, C M Loeb Rhoades & Co, Buenos Aires

QUICKSILVER — 100 flasks, New York Trust Co, Tampico

RADIUM — 3 cs, Radium Chemical Co, Antwerp

ROSADINHA GUM—22 cs, Herman Weber & Co, Belem—90 cs, Otis Astoria Corp, Belem

ROSEWOOD OIL—12 dms, Geo Lueders & Co, Belem—6 dms, Dodge & Olcott Co, Belem—6 dms, Magnus, Mabee & Reynard, Belem

RUTILE SEED—4,000 bgs, Brown Bros-Harriman Co, Brisbane

SARSAPARILLA ROOT—9 bls, Peek & Velsor, Tampico—10 bls, Vera Cruz—10 bls, Peek & Velsor, Kingston—8 bls, Victory Shipping Co, Kingston—6 bls, J A Manton & Co, Kingston—8 bls, G T German, Kingston

SESAME SEED—2,616 bgs, W G Scarlett

& Co, Cristobal—334 bgs, Bankers Trust Co, Cristobal
SHARK LIVER OIL—25 dms, Distillation Products, Inc, Rochester, Balboa
SHARK LIVERS—15 dms, Chase National Bank, Cristobal
SHELLAC — 1 cs, International General Electric Co, Rio de Janeiro
SILVER PROTEINATE — 1 cs, Heyden Chemical Corp, Rio de Janeiro
SLOEBERRIES—79 bgs, Antwerp
SORVA GUM—339 cs, Otis Astoria Corp, Belem—125 cs, H A Astlett & Co, Belem—143 cs, Littlejohn & Co, Belem—41 cs, T A Desmond & Co, Belem
SPINAL CORD—13 bbls, International Commercial Co, Buenos Aires
TANKAGE, LIVER—508 bgs, Buenos Aires
TAPIOCA FLOUR—100 bgs, American Key Products Co, Belem—800 bgs, Stein, Hall & Co, Santos
TARA POWDER—197 bgs, Asher, Kates & Co, Callao
TEASEED OIL—100 dms, The Aries Co, Hongkong—500 dms, Balfour, Guthrie & Co, Hongkong—100 dms, Leghorn Trading Corp, Hongkong—100 dms, Arnhold & Co, Hongkong
TUCUM KERNELS—7,590 bgs, General Foods Corp, Belem—1,539 bgs, E F Drew & Co, Belem—667 bgs, General Foods Corp, S Luiz Maranhao—6,512 bgs, E F Drew & Co, S Luiz Maranhao
TUNG OIL—560 dms, Universal Trading Corp, Shanghai—300 dms, Arnhold & Co, Hongkong—304 tons, W G Smith Co, Shanghai—550 tons, Universal Trading Corp, Shanghai—730 tons, L N Jackson Co, Hongkong—340 tons, Balfour, Guthrie & Co, Hongkong—250 tons, Moller Trading Corp, Hongkong—107 dms, International Credit Handel, Hongkong—160 tons, Universal Trading Corp, Hongkong—900 tons, Balfour, Guthrie & Co, Hongkong
VALONIA—1,134 bgs, Barkey Importing Co, Izmir
VANILLA BEANS—21 cs, McCormick & Co, Vera Cruz—1 cs, Chemical Bank & Trust Co, Mombassa
VETIVER OIL—1 dm, Edwin Seebach Co, Rio de Janeiro
WHITING—400 bgs, Nicholas H Weitzner, Antwerp—1,200 bgs, Taintor Trading Co, Hull
WITHERITE—100 tons, E I du Pont de Nemours & Co, Castle on Tyne—500 bgs, E I Du Pont de Nemours & Co, Castle on Tyne
WOLFRAM ORE—14,031 bbls, Wah Chang Trading Corp, Vigo—260 bgs, W R Grace & Co, Mollendo—1,200 bgs, Philipp Bros, Arica
WOOL GREASE—135 dms, Faesy & Besthoff, Inc, Manchester
ZIRCON, ILMENITE SAND—25,090 bgs, Bank of New South Wales, Brisbane

Baltimore

CHROME ORE—3,500 tons, General Refractories Co, Masinloc
COPRA—500 tons, Procter & Gamble Co, Cebu
IRON ORE—4,000 tons, E J Lavino & Co, Masinloc
MANGANESE ORE—7,600 tons, Carnegie Illinois Steel Corp, Durban
QUEBRACHO EXTRACT—6,560 bgs, American Tanners, Ltd, Buenos Aires

Boston

BONES—1,609 bgs, Eastman Gelatine Co, Buenos Aires—812 bgs, Buenos Aires—16,841 bgs, International Commercial Co, Buenos Aires
CASTOR OIL—25 bbls, Windram Mfg Co, Puerto Barrios
DEXTRIN—250 bgs, F R Dolan, Rotterdam
GLUESTOCK—60 bls, J Garvers Co, Havana—223 rolls, 225 bls, H Remis & Co, Santos—391 rolls, J Garvers & Co, Barranquilla—244 bls, H Remis & Co, Rio de Janeiro
ILMENITE—9,200 tons, Colachel—3,055 tons, Jossingfjord
POTASH MURIATE—8,010,816 lbs, Anvers
QUEBRACHO EXTRACT—3,500 bgs, C M Loeb Rhoades & Co, Buenos Aires
SODA CAUSTIC—272 dms, Gothenburg

Philadelphia

BONEMEAL — 1,000 bgs, Woodward & Dickerson, Antwerp
BONES—12,739 bgs, Philadelphia National Bank, Rosario
TAPIOCA FLOUR—3,334 bgs, Perkins Glue Co, Rio de Janeiro

San Francisco

TEASEED OIL—209 dms, Pacific Vegetable Oil Corp, Hongkong
TUNG OIL—540 tons, Pacific Vegetable Oil Corp, Hongkong—200 dms, Otto Sales Co, Hongkong—52 dms, Pacific Vegetable Oil Corp, Hongkong

Sinclair to Expand Houston Facilities

Sinclair Oil Corporation is planning to expand the facilities of its Houston, Tex., refinery to increase the plant's output by 15,000 barrels a day. It is estimated that the expansion will cost between thirty and thirty-five million dollars.

Trade Briefs

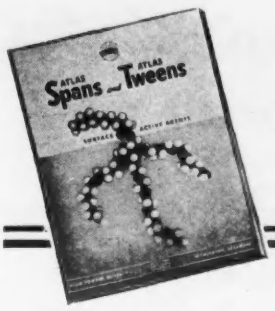
Cuban Tobacco Growers Association plans to erect a fertilizer factory in that country which will utilize Chilean nitrate as one of its raw materials.

Norsk Hydro Kvaelstof A-3, Norwegian nitrogen works, will remain under the control of Norwegian interests under an agreement made with French investors.

Fertilizer imported into Egypt during the first ten months of 1946 amounted to 184,511 metric tons, valued at £2,466,413, according to a report from that country.

Sulphur imports into Argentina during 1947 will be permitted to the extent of 45,000 metric tons, according to a recent announcement by the Department of Industry and Commerce.

Chemical fertilizer is allocated to Polish sugar planters in the amount of 770 pounds per hectare (1 hectare equals 2.47 acres), according to the Polish press. Increase of this quota is dependent on the supplies made available from both domestic sources and from imports, it is stated.



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- PHENOBARBITAL USP
- QUININE HYDROCHLORIDE USP
- QUININE SULPHATE USP
- ROCHELLE SALTS USP
- SILVER NITRATE USP
- SODIUM BARBITAL USP
- SODIUM BROMIDE USP
- SODIUM IODIDE USP
- SULFADIAZINE USP (Powder)
- SULFADIAZINE TABLETS (7.7 grs.)
- SULFATHIAZOLE USP (Powder & Tablets)
- THIAMINE HYDROCHLORIDE (Vitamin B-1 Tablets & Crystals)

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CARRAGAR is an agar-type gelatin which forms tender, fruit-like gels over a wide pH range. It does not require acidulation to produce desired results.

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Chemical Salesmen Form Cleveland Club

A Chemical Salesman's Club of Cleveland was formed recently for social and educational purposes, and will be patterned after the salesman's association of New York. Meetings will be held the first Monday of each month at the Midday Club.

Officers for the group named at the initial meeting were:—president, C. A. Kleinhans, Solvay Sales Corporation; vice-president, R. D. Kane, Innis, Spieden & Co.; treasurer, Charles Blazier, McKesson-Robbins, Inc., and secretary, Carl Byron, American Cyanamid Company.

Heading the various committees for the organization are:—R. D. Kane, Innis, Speiden, membership; I. C. Purrenhage, E. I. du Pont de Nemours & Company, entertainment; L. E. Weitz, Chemex Supply Corporation, legal, and A. F. Smith, Westvaco Chlorine Products Company, publicity.

Chemical Workers Weekly Earnings Up

Weekly earnings of factory workers in chemical and related fields showed a light increase in February, as compared with January. A breakdown of the weekly earnings for the chemical and allied industries follows:—

	Weekly		
	Feb., 1947	Jan., 1946	Dec., 1946
Chemical and allied products	$48.12	$47.37	$47.14
Ammunition	48.55	48.14	47.38
Chemicals	55.01	54.77	54.15
Cottonseed oil	35.77	35.91	36.49
Drugs, medicines, insecticides	43.15	41.88	42.01
Explosives, safety fuses	50.00	53.08	51.68
Fertilizers	33.44	33.44	34.64
Paints and varnishes	50.34	49.69	49.17
Petroleum refining	57.99	58.02	57.80
Rayon, allied products	47.31	44.14	43.76
Soaps	53.46	53.08	52.93

Commerce Dept. Moves Syracuse Office

The Syracuse district office of the United States Department of Commerce has moved its offices to 1025 Chimes building, 109 West Onandaga street, Syracuse, N. Y.

Medical Surplus Supplies Directed by FDA

OPD Washington Bureau

The War Assets Administration announces it is exercising great care in the disposal of surplus military medical supplies, working under the direction of the Food and Drug Administration. The supplies are destroyed if it is found that the cost of analysis would be greater than the recovery from sale; the item is not sterile; labeling does not conform to the law, or the article has no civilian use.

Halozone water purification tablets, salt tablets, and iodine swabs have been approved for sale this month. Other articles have been destroyed for one of the reasons listed above.

Milk Powder Storage Methods Described

The Office of Technical Services of the Department of Commerce now offers for sale a report of wartime tests made for the Office of the United States Army's Quartermaster General which show that the storage life of well-prepared dehydrated whole milk powders is prolonged by the removal of residual oxygen in the powder under high vacuum treatment.

The report gives a complete description of the testing procedure. Orders for the report (PB-58147; "Research on Packing Methods and Problems"; photostat, $1; microfilm, $1; seven pages) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

Trade Briefs

Egypt's imports of medicines during the first ten months of 1946 amounted to 1,324,864 kilograms, valued at £1,103,895, according to a recent report from that country.

Drugs exported from Ecuador during the first half of 1946 amounted to 20,337 kilograms, according to a recent report from that country. Imports of drugs, chemicals and pharmaceuticals during the same period totaled 903,180 kilograms.

Burroughs, Wellcome & Co., pharmaceuticals manufacturer, has presented gold watches to Alfred R. Trimbach, sales representative in the Oakland, Calif., territory, and Morril S. Reynolds, representative in the Boston area, in observance of their twenty-first year with the company.

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Prompt deliveries in tins and drums
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Pauling Receives Richards Medal

Dr. Linus Pauling, of the California Institute of Technology, was presented with the Theodore William Richards Medal of the northeastern section of the American Chemical Society at ceremonies held last week in Huntington Hall of the Massachusetts Institute of Technology.

Termed a "prodigy of science" since he won the $1,000 American Chemical Society Award in Pure Chemistry in 1931, Dr. Pauling was given the Richards Medal in recognition of his achievements in biology and physics as well as his contributions to chemistry.

Concurrently with the presentation by Professor Chester P. Baker, of Northeastern University, Professor E. Bright Wilson, jr., of Harvard, described the medalist's scientific accomplishments, which have made him internationally famous for his fundamental research in the field of molecular structure.

DDT as Spotted Fever Protection Advised

OPD Washington Bureau

DDT dust offers low-cost and practical protection against the dog-tick that carries Rocky Mountain spotted fever, according to the Department of Agriculture. The bureau of entomology and plant quarantine recommends a light dusting of 10 percent DDT powder applied at the rate of two to four pounds per acre, or one ounce per 1,000 square feet for smaller areas.

Monsanto Adds Lawrence To Market Research Staff

Richard M. Lawrence has been added to the market research staff of Monsanto Chemical Company, St. Louis, Mo. Mr. Lawrence was formerly with the development department of Atlas Powder Company, Wilmington, Del., and with the chemical division of the U. S. Tariff Commission.

Professional Services

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(For further details see listings in OPD Green Book.)

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Molnar Laboratories
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Vitamin A Shortage? The Answer Is . . .

CAROTENE

Scarcity of Sharks Cuts Vitamin Supply

WASHINGTON, Jan. 18. (AP) James M. Lemon, chief of the technical branch of the Fish and Wildlife Service, said today a scarcity of sharks is threatening the nation's supply of vitamin A. "The truth is," Lemon told a reporter, "our sources of supply for vitamin A afe drying up—and this is a vitamin that has not yet successfully been synthesized."

Carotene has been accepted as the International Standard for measuring Vitamin A activity.

Carotene has no fishy odor or taste. Potencies up to 1,350,000 units per gram. Write for NEW LOW PRICE List and Testing Samples.

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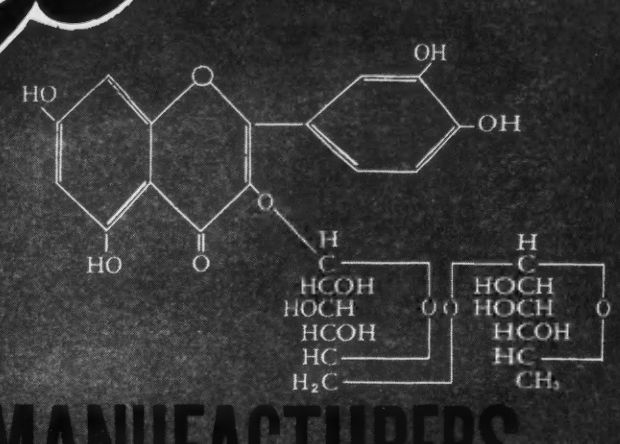

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This production has entailed the cultivation and proper harvesting of buckwheat under the direction of the PENICK PILOT PLANT FARMS; the planning of an adequate factory process by the chemical engineering staff, and the elaboration of chemical and physical standards relating to percentage purity, color indices, freedom from pigment, etc., with a view to RUTIN-Penick being of the highest possible quality.

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Botanical Drugs, Spices, Gums

Business in the market for botanical drugs did not contract further last week. Sellers generally reported the market to be spotty—fair one day, poor the next, and good the following. But on the whole, buyers pursued a policy of buying precent requirements only, purchasing carefully when the requirement was large and trading readily when the needs were small. The general trend of prices was downward but the market differed from that in the previous week in that there were a few advances.

A few arnica flowers appeared in local circles and their holders could set their own idea of values and when need forced, buyers would have to pay what was asked. Honduras sarsaparilla root was also higher in keeping with replacement cost development. A development, not having to do with prices, was the arrival of Mexican sarsaparilla root in quantities rather larger than had been the rule in the recent past.

Declines in drug items came in materials hardly of major importance, but still indicative of the softening that has come to the price structure in parts, at least. Powdered areca nuts, Indian fenugreek seed, calendula flowers, juniper berries and Spanish saffron were all lower, mainly because of a demand not overly active, but in part because of more favorable replacement costs. Balsams weakened in that copaiba and tolu gave evidence of larger stocks in hand and an increase in competition. The drop in Canadian fir balsam was evidence of improved stocks; the late high price had been one caused only by spot scarcity.

Condimental items continued their long extended journey to the lower level of price values. Steady expansion of stocks brought the market to the point where demand going to the primary markets could be curtailed. This drop in buying futures in turn brought declines in the price views of shippers and lower replacements were added influence on further spot declines. This group constituted a market solely favorable for buyers.

Market Trends

Prices Advanced

Drugs

Arnica flowers, 45c. per lb.
Sarsaparilla root, Honduras, 10c. per lb.

Other Articles

Mustard seed, California, brown, ½c. per lb.
Rosemary leaves, Spanish, ½c. per lb.
Thyme, Spanish, ¼c. per lb.

Prices Reduced

Drugs

Areca nuts, powdered, 3c. per lb.
Calendula flowers, 5c. per lb.
Copaiba balsam, 15c. per lb.
Fenugreek seed, Indian, 1c. per lb.
Fir balsam, Canadian, $1 per gal.
Juniper berries, 5c. per lb.
Kola nuts, 2c. per lb.
Saffron, Spanish, $1 per lb.
Tolu balsam, 20c. per lb.
Turmeric root, Alleppey, 3c. per lb.
powdered, ½c. per lb.

Other Articles

Anise, Chinese, star, ½c. per lb.
Mexican, 1c. per lb.
Cassia, China, rolls, extra select, ½c. per lb.
Saigon, all medium, 1c. per lb.
4-10-4, 1c. per lb.
broken, ½c. per lb.
Cinnamon, Ceylon, 5c. per lb.
Clove, Madagascar, futures, ½c. per lb.
Ginger, Cochin, bleached, ½c. per lb.
Laurel, Portuguese, 1c. per lb.
Turkish, 2½c. per lb.
Marjoram, Chilean, futures, ½c. per lb.
Nutmegs, West Indian, spot, 3c. per lb.
futures, 1c. per lb.
East Indian, futures, 2c. per lb.
Rosemary leaves, French, 1c. per lb.
Portuguese, 1c. per lb.
Sage, Dalmatian, ½c. per lb.
Greek, 9c. per lb.
Thyme, French, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
284.3	280.9	281.7	287.8

(For Current Prices see Page 9)

Imports Detained by FDA

New York

Thyroid powder, desiccated, 5 cases: not USP.
Cassia, 300 bales: insect infested.
Chillies, 1,134 bags: insect infested.
Corn silk, 122 bales: filthy.
Cumin seed, 125 bags: filthy.
Fenugreek seed, 267 bags: filthy.
Lime juice, 280 cartons: not "West India Lime Juice" as labeled.
Glycerin, 4 demijohns: below USP.
Nutmegs, 246 bags: moldy and wormy.
Ocotea cymbarum oil, 46 drums: correct name of product not on drums.
Orange peel, 856 bags: wormy.
Pepper, black, 129 bags: product other than black pepper substituted.
Saffron, 1 trunk: styles.
Tubocurarin chloride, 1 parcel: new drug.

Atlanta

Pepper, black, 150 bags: excess siftings and pickings.

Baltimore

Rhubarb, 84 cases: insect infested.

Balsams

Copaiba—The market has eased further and for the first time in an extended period, quotations dropped below $1 per pound. The going market became 95c. to $1 per pound. Arrivals total 44 drums.

Fir—Canadian fir balsam has undergone some improvement in supply and prices have been shaded to $23.50 to $24 per gallon. Oregon balsam remained unchanged at moderately easy quotations.

Peru—The market continued to display price stability and the current movement into consumption was about sufficient to maintain that condition for the nearby future at least.

Tolu—Quotations have been eased back to $3.45 per pound, although not all sellers accept that as the minimum quotation. Some quote $3.65 per pound inside. This article has displayed fluctuations entirely out of keeping with the usual movement of prices for the material.

Barks

Angostura—Not much trading has been current of late but the market prices have been retained in line with the prices last paid in the replacement source of supply. Undertones were steady.

Black Haw—Further reduction in prices on root bark has not come but the market did tend to retain an easier undertone, possibly in anticipation of being able to buy new crop to greater advantage when it is offered in substantial quantities.

Buckthorn—Some gain in inquiry and a moderate rise in jobbing sales were conditions reported in certain directions during the past week. Prices remained very steady. At the source, they appeared firm.

Cinchona—Nothing new has developed anent the reopening of major trade with the Netherlands East Indies. Nor has anything developed along the line of making permanent the chinchona bark developments in Central America. The next move is up to the Civilian Production Administration.

Orange Peel—Europe will have a hard job in recovering the heavy export trade in this article. Haiti holds command of the situation and last week 1,341 bales of peel arrived from that country.

Beans

Vanilla—A shipment of 21 cases of beans arrived here last week from Vera Cruz, Mexico, indicating that the new crop of Mexicans has begun to move to this market.

In the first week in April, a responsible source in this market stated that steamship companies calling at Madagascar were "getting fed up on the amount of time they have to stay in Madagascan ports to load cargo." This statement was interpreted as meaning that the steamship companies were contemplating discontinuing their service to Madagascar.

Another responsible quarter has checked with the line plying the Madagascar-United States route and the line informed the questioner that it had no intention of curtailing service but instead was improving the service. A shipper at the source also has advised principals here that substantial shipments from that area will

For Late Market Developments, See Page 4

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FOR PROMPT DELIVERY
from New Arrivals

- ☐ French Black Psyllium Seed
- ☐ Blond Psyllium Seed
- ☐ Colocynth Pulp
- ☐ Colchicum Root
- ☐ Corn Silk
- ☐ Elder Flowers
- ☐ Burdock Root
- ☐ Althea Root
- ☐ Benzoin Sumatra
- ☐ Angelica Root
- ☐ Gentian Root
- ☐ Celery Seed
- ☐ Bryonia Root
- ☐ Euphorbia Pil.

Almost daily, the New York City Mills and Warehouses of J. L. Hopkins & Co. receive large new shipments of Foreign and Domestic Botanical Crude Drugs from every corner of the world. Check your needs against our extensive stocks.

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ANALYZED—STANDARDIZED CRUDE DRUGS
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ALOES, Curacao and Cape
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BALSAM TOLU
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BOLDO LEAVES
BORAGE FLOWERS
BUCHU LEAVES
CARAWAY SEED
CELERY SEED
CHAMOMILE FLOWERS
CHAULMOOGRA OIL
CLOVES, Zanzibar
COCILLANA BARK
COLOCYNTH PULP
COLOMBO ROOT
CORIANDER OIL AND SEED
DANDELION ROOT
DILL SEED, Indian
ERGOT OF RYE
FENNEL SEED, Indian
FOENUGREEK SEED
GENTIAN ROOT
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GRAINS OF PARADISE
GUM ARABIC AMBER SORTS
GUM KARAYA, Whole and Powder
HELLEBORE ROOT WHITE
HERBA HERNIARIÆ
HERBE MENTHE
HOREHOUND HERB
IRISH MOSS
JUNIPER BERRIES
KAMALA POWDER
LAUREL LEAVES
LAVENDER FLOWERS
LINDEN FLOWERS, with Leaves
MAHUANG, Chinese
MARJORAM LEAVES
OAK MOSS
ORANGE OIL, Sweet
ORRIS ROOT
PEPPERMINT OIL
PIMENTO, Jamaica
POPPY SEED, Indian
PSYLLIUM SEED AND HUSKS
QUINCE SEED
RHUBARB ROOT
ROSEMARY LEAVES
ROSEMARY OIL
SAGE LEAVES
SARSAPARILLA ROOT
SAVORY
SENNA LEAVES AND PODS
STRAMONIUM LEAVES
STROPHANTHUS SEED
THYME LEAVES AND OIL
UVA URSA LEAVES
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a vegetable digestant

Papain, a concentrated proteolytic enzyme, is found in the papaya, the fruit of the tropical tree *carica papaya.* It is intermediate in action between pepsin and trypsin. Commonly used as a digestant, in pharmaceuticals and meat-tenderizing preparations. As prepared by Prentiss, in whole or powdered form, it is uniform in strength, for Prentiss' specialized milling techniques preserve all of the original digestive qualities of the papain.

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be available during the Summer and Fall.

Regarding transport from the producing area to the Madagascan ports of export, it was stated last week that sizable amounts of vanilla beans are flown from the producing area to Tamatave or Majunga and that ships have not loaded at Antalaha for three years past.

Berries

Cubeb—Supplies were conservative in size, no replacements have arrived of late and sales have cut into reserves substantially. The tendency of prices was to strengthen.

Juniper — Competition croped up once more and prices sank to the level of 12c. to 20c. per pound, the range covering quality, quantity, and seller. Demand was light in local circles.

Flowers

Arnica—Relatively small amounts were reported available locally for which $2.10 to $2.20 per pound was asked in comparison with the recently nominal quotation of $1.60. It was strictly a buyers' market at prices far above normal position.

Calendula—Quotations were slightly lower at $1.05 to $1.10 per pound. This was for European flowers, the supply of which is equal to the present call for prompt deliveries; the call was small. Domestic flowers in California continued to be mentioned at $2 per pound.

Chamomile—The market was firm in most respects, but the call was occasional and not at all regular from day to day. Stocks were conservative in size.

Linden — Hand-to-mouth transactions were the rule and the total of sales were within the accumulation of strictly jobbing needs. Prices remained steady in most quarters. Stocks were conservative.

Saffron—Spot prices on Mexican flowers were reduced to $37 to $38 per pound for goods packed in tins. For flowers packaged in boxes that contain 15 ounces to the box, the price was $35 per 15 ounces.

Gums

Aloe—Demand was not very broad, but it was very fair within the confines of jobbing request. Undertones were steady to firm on the spot and prices were well maintained throughout the period on spot and in the primary markets.

Arabic — The market was well stocked with prompt delivery merchandise and demand was better than fair. Prices showed firmness at all times and few sellers were disposed to accept less than the market as generally quoted, holding quotations in line with the replacement market ideas of values.

Benzoin — Demand was relatively light. Former consumers of Sumatra gum have recovered a fair position in the matter of reserve stocks and selling on this market has dropped to routine proportions. Quotations continued to be mainly steady but some tendency to shade could be found.

Camphor—Stocks were not overly abundant, production of synthetic material finding ready takers for the goods as they become available. Little or no Formosan camphor—formerly sold by the Japanese but now controlled by the Chinese—was to be had at any price because no steady movement of production in the Far East has been arranged yet with importers in this market.

Mastic—The market lacked sufficient activity to remove the article from competitive position now that stocks have shown even a small increase. However, no further reduction was made in open quotations.

Sandarac—The market on spot was still somewhat soft and prices showed a tendency to move in favor of buyers for consumption. Enough stock was current to meet the present volume of consumer requests.

Herbs and Leaves

Belladonna—Hardly anything was on the open market. Those with supplies reserved them for regular customers and the latter were mainly on a ration basis since it is impossible at this time to get good quality foreign material to this market. Relief from shortage depends on the collection of

PEEK AND VELSOR INCORPORATED 110 WILLIAM ST. NEW YORK 7

Established 1840

CRUDE DRUGS

N.F.

Dandelion Root

19

Dandelion is "a troublesome weed," says Authority. Troublesome? Ask the maker of a weed-free lawn! Weber called it *Taraxacum*, from a Greek verb meaning "I disturb." Apt, eh? Ask the lover of lawns!

It is the *Tarakhshagun* of 10th century Arabian doctors, a sort of wild, edible endive. Right as rain! Ever eat a mess of young dandelion greens in Spring?

The Cube Herbal of 1488 called it *Dens Leonis*, so named by the surgeon Wilhelm, now unkown. From which Germans made *Lowenzahnwurzel,* meaning "lions tooth root." But Modesty passes by the French name *Pissenlit* with the comment that *lit* means "bed."

Our Almanach

May 11, 1858—Minnesota admitted into the Union.
May 13, 1607—Jamestown, Va., settled.
May 13, 1846—U.S.-Mexican war declared.
May 15, 1911—Judge Landis dissolved Standard Oil.
May 15, 1918—U. S. airmail established.

WAREHOUSE AND MILLS

JERSEY CITY NEW JERSEY

CRUDE BOTANICAL DRUGS From Forty Nations TRADE MARK

ample quantities in Europe this year. The uncertainty regarding the future of supplies from Europe will act as a brake on large domestic cultivation of the leaf this year.

Buchu—The very narrow supply is being handled carefully with a view to spreading it as broadly as possible until major replacement shall take place through imports from South Africa.

Deer Tongue—A report from London says the British are going into smoking of "tobacco" made from herbs. Mayhap the British cousins might learn the virtues of deertongue when applied to smoking mixtures.

Jaborandi — Although 88 bales of this material reached here from the primary market last week, the import was for the account of a manufacturing consumer and, hence, will not come on the open market. However, dealers stocks in this market were in excellent shape and needy consumers could satisfy their needs with limited trouble.

Laurel — Choice Portuguese was lower at 11c. to 11½c. per pound and the ordinary could be had for 10½c. to 11c. when available. Turkish leaves were reduced rather sharply to the basis of 12c. to 12½c.

Marjoram—Chilean material in future arrival position was lowered to the basis of 9¾c. to 10¼c. per pound but no change was made in the price for spot deliveries. An arrival of 255 bales from Arica, Chile, was noted.

Oregano—The feature was the offering of some Mexican goods at 16c. to 16½c. per pound, but the far superior European material will find a market at prices much above those for the Mexican product.

Rosemary—Some Portuguese material was offered at the lower price of 7½c. to 8c. per pound. French was also cheaper at 12c. to 12½c., and Spanish was slightly higher at 13c. to 13½c.

Savory — Practically nothing was available in the usual channels of major distribution and the price for French herb was nominal at the lower level of 21c. per pound.

Sage—Dalmatian was shaded to 29½c. to 30c. per pound for spots and to 28c. to 28½c. for futures. Greek material was down sharply to 16c. to 16½c. per pound, and found it difficult to attract buyers now that the fine quality Dalmatian is available. The presence of Dalmatian sage should mean the eventual improvement of the flavor in the succulent pork sausage.

Thyme—French herb was fractionally lower at 16c. to 16½c. per pound for spots and Spanish herb at 11¾c. to 12¼c. was more favorably priced for buyers.

Miscellaneous

Areca Nuts—The supply situation has improved some and spot quotations have shown an easing tendency. Powder was reduced to the basis of 29c. to 30c. per pound.

Cantharides—Write one down for Russian flies; 8 cases arrived here from Odessa, USSR, last week—the first to be openly reported for a long period of time. They come to a spot market dominated by Chinese flies which are obtainable at $4 to $4.25 per pound with little trouble. The last quoted price on Russian flies was around $7 per pound.

Corn Silk—The market continued steady but not overly well stocked with released goods. Reports last week witnessed the detention of 122 bales of recently arrived silk. The reason was the presence of filth—a presence that has graced arrivals of corn silk for months past.

Kola Nuts—The market was relatively easy at 8c. to 9c. per pound under the present inactivity of most buyers. Plenty of material exists at the source. An arrival of 6 bags from Kingston, Jamaica, was reported last week.

Lycopodium—Canadian sources are offering this material to be delivered when collected later. Last year, a substantial quantity was sold to this market through factors in the Province of Quebec.

Nux Vomica—An arrival of 2,119 bales from Saigon was reported last week. This arrival of so substantial quantity was an indication of the expanding consumption of the material in this country.

Papain—The market continued to show signs of a more easy position and the arrival of 167 cases from Mombassa was no detriment to that aspect of the market last week. Some indications of possible shading of quoted prices were noted.

Quassia—An arrival of 1,080 bales of chips was noted last week.

Roots

Blood—Some expect a gain in collection this year to result from the special efforts now being made to increase gathering in the domestic primary market.

Gentian — The market lacked further decline but prices were definitely on the easy side and the tendency was to meet any reasonable bids by buyers.

Goldenseal—Considerable is being said about this article but the fact is that major increase in production must await the maturity of the new plantings in cultivation projects. Maturity is a matter of three years from the time of planting.

Rhubarb—The tendency seems now to concentrate on imports of the superior root from China at the expense of root from India—which latter root proved a lifesaver during the period when imports from China were impossible.

Sarsaparilla—During the past week, 9 bales arrived from Tampico, Mexico—an indication that exports of large quantities are still lacking in that country. Also, 10 bales came from Vera Cruz, Mexico. And a lot of 32 bales reached here from Kingston, Jamaica. Honduras root was higher at 65c. to 66c. per pound.

Turmeric—Alleppey root in future arrival position was lower at 21c. to 22c. per pound. Powdered Alleppey root was shaded to 27½c. to 28c. Madras root was down to 18c. to 18½c. but was hardly available.

Seeds

Anise—Stocks seemed plentiful and a wide range of varieties was present. Chinese star anise was down to 16c. to 16½c. per pound and the Mexican was shaded to 32c. to 33c.

Caraway—Canada again appeared in the list of seller, with some material available around 24c. per pound.

Fenugreek—Indian was offered spot at 9½c. to 10c. per pound, and futures were mentioned at 9c. to 9½c.

Mustard — California brown was higher at 17c. to 17½c. per pound. French interest continued to be shown, but the potential buyers in

—*Continued on page 69*

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Essential Oils, Other Aromatics

The downward trend of prices in essential oils was sharply reversed last week, as the five oils which dropped in price were more than balanced by ten oils which showed an increase. The only newcomer to the ranks of the oils decreased in price was California grapefruit oil, of which large stocks were reported to be ready for shipment from the West Coast. Lemongrass oil repeated its performance of the past several weeks by slipping once more.

The two Chinese oils which had previously undergone such drastic reductions, anise and cassia, advanced but not to the extent of nearly balancing the prior cuts. Several other oils showed increases in sympathetic reaction to reports of delay in imports. Petitgrain developed the expected increase as the Paraguay producers made their attempt to establish a price floor.

A certain seasonal upswing was reported in oils used in the insecticide industry, but in general there was little movement of oil stocks. Although the total volume of business being done showed a slight increase, it was generally agreed that it would be several more months before turnover should realize its latent potential.

The aromatic chemical industry reported a noticeable slowdown in trade. Hampered as it was by the continued shortage of several vitally important raw materials, this lethargy in the stocks in good supply was viewed with some concern, although it was agreed that it represented a purely temporary condition.

Market Trends

Prices Advanced

Anise oil, Chinese, 5c. per lb.
Cassia oil, USP, 55c. per lb.
Cedarwood oil, 5c. per lb.
Guaiacwood oil, 40c. per lb.
Lavender oil, French, 38-42% ester, 75c. per lb.
Linalool, ex lignaloe wood, 25c. per lb.
Ocotea cymbarum oil, 5c. per lb.
Peppermint oil, natural, 40c. per lb.
Petitgrain oil, 25c. per lb.
Pineneedle oil, $1.15 per lb.
Terpinyl acetate, 8c. per lb. extra, 12c. per lb.
Wormwood oil, $1.25 per lb.

Prices Reduced

Grapefruit oil, California, 20c. per lb.
Lavandin oil, 10c. per lb.
Lavender oil, spike, Spanish, 10c. per lb.
Lemongrass oil, 25c. per lb.
Vetiver oil, Bourbon, $3 per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
203.6	196.4	208.9	209.4

(For Current Prices see Page 9)

Essential Oils

Anise—There was a substantial drop of 55c. on the outside last week, as stocks acquired at the former higher prices disappeared, and suppliers dropped their prices in line with the current replacement costs. The previous inside price was raised 5c., the new price of 90c. per pound being more in accord with present market conditions. The range was thus narrowed to 90c. to 95c. per pound—quotations, apparently, which were generally found attractive, as movement of stocks was brisk. A noteworthy swing by chewing gum manufacturers to this flavor had been in evidence for some time—a not unexpected trend, in view of the prevalent prices for mints. Stocks on hand in this country were deemed adequate to take care of all ordinary needs, and it was reported that replacement in China had developed into a strictly routine matter.

Bay—Very little Puerto Rican oil was to be found on the market; on the other hand, West Indian oil was available in some quantity, though not enough to satisfy the eager demand for this oil. It was reported that pharmaceutical users were merely maintaining their usual demand for the product, but that the increase of inquiries from the flavor industry was noteworthy. It seemed certain that it would be some months, however, before supplies of either type of oil would be adequate to meet the demands of all types of users.

Bois de Rose—Imports continued fairly heavy as twenty-four drums were received from Belem. The market remained firm at an average of $4.70 per pound, though some stocks were being offered at as low as $4.10 and as high as $5.75. It was expected that imports would be even heavier during the next few weeks, as shippers hastened to take advantage of the present strength of the market.

Cassia — A sharp reaction to the price cuts of two weeks ago was felt, as a brisk demand was the immediate result. So much was this the case that a minor shortage was induced, with the result that this week a 55c. price increase was announced. The supply-demand balance on this oil was so finely drawn that even a slight variation in either one had immediate repercussions on the market: hence, if a certain caution should develop as a result of the market's upward trend, prices would be subject to prompt downward revision. This tobogganing would, apparently, remain in force till such time as the oil should begin to reach these shores in free supply; but this was not expected for some time yet. Imports during the past week consisted of sixteen drums from Hong Kong.

Cedarwood—It had been previously noted that decreases had been made in certain quarters, while the market as a whole was increasingly firm. This anomaly was somewhat eased last week, as the inside price began to rise in those quarters which had been quoting outside the general market. It was felt that special circumstances had dictated their previous course, but that they would soon be more consistently in line with the higher prices prevailing. The range stood last week at 85c. to $1.10.

Cinnamon—The trickle of imports noted two weeks ago continued, as two more cases of the bark oil arrived from Ceylon. A great many cases could be absorbed by the eager demand prevailing in this country; but it was felt that the present token shipments would serve as a pledge of forthcoming large shipments, and thus help to stabilize the market, on which there was a wide range of $65 per pound.

Cumin—A general drop of two to three dollars per pound was experienced, establishing a price range of $6.25 to $11.50. The decrease was in reaction to consumer disinterestedness, rather than to a sharply improved supply situation. Very small quantities of the oil were being used by soap and perfume manufacturers, and condiment concerns were not geared to sufficiently high production to absorb all the oil on the market.

Cypress—Supplies were not only tight but virtually non-existent. Imports from France as a whole were limited, and it appeared that shippers there were concentrating more on the floral oils than upon such items as this. Quotations of $15 per pound could still be heard, but it required very diligent search to locate even minute quantities.

Dill—Quotations on seed oil remained unchanged at $6.50 to $7 per pound, but such quotations were in danger of becoming nominal as stocks disappeared, with little hope for immediate replacement. Although fair quantities of weed oil were available, the situation on the seed was becoming badly strained. Demand was particularly heavy for this oil last week, but very little could be found.

Erigeron—The quotation of $2.30 per pound for this oil became nominal, as stocks were impossible to locate. Many houses had not been able to supply the product for some years, but other suppliers had been able to offer it in limited quantities; by last week, however, these limited reserves had disappeared, and it was a moot point whether they would put in a reappearance by the year's end. It was felt that even if some quantities should become available, they would follow the lead of other oils originating in the Michigan-Indiana area, and be offered at prohibitive prices.

Fir—The Canadian oil was in exceedingly tight supply, as many suppliers were compelled to strike it from their lists. Those few supply houses which could provide it in limited quan-

For Late Market Developments, See Page 4

tities were quoting in the region of $2.50 per pound. It was expected that large quantities of this oil should be available in a few months.

Grapefruit—A twenty-cent decrease for the California oil established a new inside price of $1.90. Though this decrease was not universal in the trade, it was felt that reports of good supply on the West Coast would result in widespread application of the cut.

Guaiacwood—An increase of 40c. per pound on the inside was noted, establishing a new minimum quotation of $2.90. This increase was not dictated by any changes in the supply picture, which remained fairly free, but by the previously noted attempt by Paraguay to establish a floor for exports. The demand for the oil, however, was not particularly great; it remained to be seen whether this forced strengthening of the market could survive in the face of possible consumer resistance.

Lavandin—Spot decreases of 10c. per pound were noted, but the general market hovered nearer the outside price of $6 per pound than the new inside of $2.70. It was felt that this lower price represented temporary measures devised in certain quarters because of special circumstances, and that it must soon rise to a point more in line with the general price. Fairly large stocks were, however, being offered at the inside price—and this despite the fact that stocks on the whole were far from plentiful. There had been no arrival of imports in any appreciable quantity for some months, and the prospect of acquiring really adequate supplies from abroad remained dismal. Demand was reported as fairly strong, though there was in evidence no particular determination to buy up stocks at high prices. It was felt that the uncertainty of the supply picture was proving detrimental to the potential demand for this oil.

Lavender—This oil, which had been skidding up and down over a period of some weeks, experienced a further change last week as an increase of 75c. on the inside was announced for the French flower of 38-42 percent ester. The range for this type stood at $8.75 to $10.50, while that for the flower of 30-32 percent ester was $5.50 to $8. Despite well-founded reports that overseas sources were in a position to supply the oil in quantity, no imports of note had arrived here. Hence further fluctuations were looked for in the market, and it was felt that it would not stabilize till such time as supplies were arriving here freely. Exactly how soon this might be expected was as yet undetermined. Spanish spike oil also underwent its first change in some time, as decreases on both inside and outside established a range of $1.75 to $2.25. This increase, however, seemed to have no connection with the variations in the French oils; rather, it appeared to be a further step in the general trend, inaugurated last week in the case of rosemary and rue to offer Spanish oils at more attractive prices, in order to step up a once flourishing but now languishing trade with that country.

Lemongrass—The eighth decrease of 1947 went into effect, as a new low of $2 per pound was announced. This was, of course, still a far cry from the quotation of 50c. per pound made at this time in 1937; but it was a very substantial decrease from the $4 to $5 prices asked during the past few years. A wide-open supply and a conservative demand were, of course, the factors behind the steady decline of the oil. Insofar as it appeared clear that the supply lines would remain open, and even be increased by the entry of new producing areas into the field, as reported last week, indications were that only a notable increase in demand could stabilize the oil. The demand will be felt when consumers are satisfied that the price has fallen to its nadir, but, while the market continues to drop 25c. a week, demand cannot be expected to strengthen to any extent. Imports during the week were confined to one drum from Cristobal.

Ocotea Cymbarum—The first imports to reach these shores in some time were reported last week, as fifty-nine drums arrived from Rio de Janeiro. Demand for this oil remained reasonably strong, and the market showed corresponding strength. An increase of 5c. on the inside established a range of 90c. to $1 per pound. Stocks were reasonably good, but difficulties developed from time to time in supplying large quantities promptly. It was reported that Brazil

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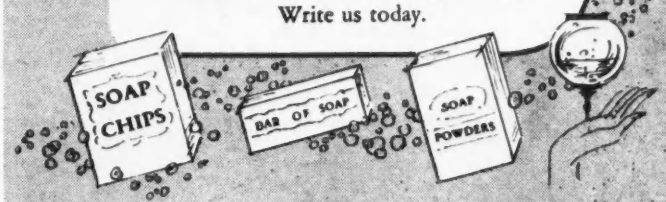

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would soon be shipping the oil in large lots.

Patchouli — The flow of imports which got under way two weeks ago with a shipment from Singapore continued last week at a slightly increased tempo as four drums arrived from Penang. Though this represented an insignificant fraction of the stocks necessary to meet the eager demand, it was accepted as evidence of the report that the oil would soon be arriving here in a steady stream. No change was noted in the market, and it was felt that there would be none till such time as the imports were actually arriving in sufficient quantity to have an impact.

Peppermint—Although no changes were experienced in the general market, certain suppliers who had been offering the oil at some forty cents below the general price, revised their quotations upward so as to fall more in line with the prevalent conditions. The natural oil was quoted at $8 to $8.50 per pound, the redistilled at $8.55 to $9. Reports from the Midwest pointed out that the unseasonable rains had delayed planting to some extent; it was, however, too early as yet to estimate what effect this delay might have upon the crop. It was certain that no weakening of the market could be expected in the foreseeable future.

Petitgrain — The attempt of the Paraguay producers to establish a floor for the oil caused the first reaction here, as the inside price rose to $3.25 per pound. The range on the oil remained wide, as it was offered in some quarters at $4.30 per pound. Demand for the oil remained routine, and not nearly great enough to support artificially-raised prices. The flow of imports increased as shippers took advantage of the present strengthening of the market: a total of eighty-nine drums arrived during the week from Montevideo.

Pineneedle—A very sharp rise was felt in this oil, as the inside price went from $2.50 to $3.65. The increase was inspired by the higher cost of replacement at source. A fair supply situation was reported in most varieties of this oil, the only shortage being felt in the Russian type. It was expected, however, that this variety also would be freely offered on the market in approximately one month.

Wormwood—This oil, which had been relatively inactive for some months, attracted some attention last week. Some suppliers struck the oil from their lists, as supplies were severely limited: those suppliers who had stock on hand announced a fairly general increase. The range was narrow at $11.25 to $11.50 per pound, and deliveries were undertaken on an if and when basis. Demand for this oil had been on the weak side, but constant, so it was not till stocks were almost depleted that it became evident that replacement would be difficult. It was felt that supplies would be plentiful in a short time, but in the meanwhile the market was quite strong.

Aromatic Chemicals

Coumarin—This item continued in exceedingly tight supply. The reason for the shortage was seen as the tightness of acetic anhydride, as, indeed, of all acetic acid products. Perfumery, confectionery, and beverage trades were willing to absorb large quantities of the product, but indications were that it would be some time before production could hope to catch up with demand.

Linalool—Decreases were announced in the product made from lignaloe wood, which developed a new inside price of $6.50. This decrease was in reaction to the cuts in the price of the Mexican oil which had been announced over the past few weeks. The product made from bois de rose remained firm at an inside price of $7.75, with the possibility of an increase if the present prices of bois de rose oil should remain firm or rise. Linalool was reported in good supply, with consumer demand at a reasonably high level.

Terpinyl Acetate—Although supplies of this important product could be described as fair, nevertheless consumers had to proceed on a hand-to-mouth basis. It was virtually impossible to have delivery in quantities large enough to cover requirements for future use. In some quarters deliveries were subject to some delay; in others, part shipments were being made against orders. Although the situation was not such as to be described as one of shortage, it could be termed tight, and very sensitive to the slightest change in the raw materials picture. General price increases of ten to twenty cents per pound were announced in most quarters.

Essential Oil Imports From Paraguay Decline

Imports of guaiacwood oil and petitgrain oil from Paraguay to the United States showed a decline for the first ten months of 1946 over the corresponding period in 1945. Paraguaian figures put the guaiacwood oil total at 2,440 kilograms, valued at $11,476, for 1946 as compared with 7,669 kilograms, valued at $37,683, for the previous year. Petitgrain oil figures for the 1946 period of 71,341 kilograms, with a value of $450,175, showed a decline in volume but a rise in value, as compared with 98,408 kilograms, valued at $337,562, for 1945.

M.M.&R. Expands Midwest Sales Staff

Magnus, Mabee & Reynard, essential oils and aromatic chemicals, New York, has appointed Herbert F. Grafslund and John P. Grattan to the midwestern sales division.

Mr. Grafslund, formerly with E. R. Squibb & Sons and Smith, Kline & French, Inc., will service accounts in Minnesota, Wisconsin, Northern Illinois and a portion of Chicago. Mr. Grattan formerly represented the company in the New York area.

Elizabeth Arden Names Johns Vice-President

Elizabeth Arden, Inc., cosmetics manufacturer, New York, has named Robert P. Johns to be executive vice-president and general manager, and Ralph P. Lewis to be vice-president and sales manager.

Johns was formerly vice-president in charge of fashion merchandising at Paine's of Boston, Inc., and Mr. Lewis has been sales manager of the Arden organization.

Polak & Schwarz Opens Chicago Office

Polak & Schwarz, Inc., manufacturer of essential oils, aromatics, flavors and perfume compounds, New York, has opened a division office, laboratory and warehouse in Chicago.

A.C.S. Toledo Section Headed by H.A.Hoppens

The Toledo section of the American Chemical Society has elected Dr. Harold A. Hoppens, of the Plaskon division of Libbey-Owens-Ford Glass Company, to be chairman for 1947-1948. He will take office on June 6, succeeding Dr. Albert A. Dietz, of the Toledo Hospital for Medical Research.

Frank R. Bacon and Dr. Geroge L. Kalousek, both of the Owens-Illinois Glass Company, were named vice-chairman and secretary-treasurer, respectively, and Dr. Joseph D. Ryan, Libbey-Owens-Ford, and Dr. Herman V. Dorn, Owens-Illinois, were chosen as representatives to the society's national council.

Rene Forster Changes Allondon, Inc.

Rene Forster Co., Inc., dealers in essential oils and aromatic chemicals, New York, has changed its name to Allondon, Inc. The same staff will be retained under the presidency of Rene Forster. New offices are located at 66 Dey street, New York 7, N. Y.

Trade Briefs

Agicide Laboratories Inc. will build a new warehouse at its plant in East Los Angeles, at a cost of $28,000.

Essential oils for shipment from all French colonies to Italy are assigned a quota value of 20,000,000 lires under the French-Italian trade accord extending from January 1, 1947, to December 31, 1947.

Bob:ick Manufacturing Corporation, Los Angeles, manufacturer of soap and lotion dispensers, last week reopened its sales office at 1214 Nostrand avenue, Brooklyn, N. Y. James A. Puleo has been placed in charge of the office.

M.C.A. Representatives Tour Calco Plant

Calco Chemical Division, American Cyanamid Company, Bound Brook, N. J., recently played host to members of the Manufacturing Chemists' Association, who were assembled in New York for a series of discussions on problems confronting the chemical industry.

Headed by Dr. R. W. Hess, president of the association, and director of research for the National Aniline Division of the Allied Chemical & Dye Corporation, Schenectady, N. Y., the group was conducted through the extensive facilities devoted to the effluent process at Calco.

The various steps of the process, which successfully absorbs and treats the effluent from over 1,000 different chemical products, were explained to the visitors by Dr. Victor L. King, technical director of Calco, and R. E. Lester, D. Tarvin, M. Van Nostrand and M. Banks.

Botanical Drugs

—Continued from page 65

La Belle France have yet to obtain import licenses and their interest comes to naught.

Poppy — Bakeries appear to be stuffed with blue seed since their current interest in offerings is purely academic. Or maybe those addicted to the seed left it for life when they rebelled against the seed provided on bread and buns during the war.

Spices

Cassia—Broken estra select rolls were shaded to 8c. to 8½c. per pound. Saigon all medium cassia was down to 26c. to 27c., and the 4-10-4 variety was available at the same quotation. Broken Saigon was reduced to 23½c. to 24c.

Cinnamon—Limited quantities of No. 2 Ceylon spice were available at the lower price of 50c. to 55c. per pound.

Ginger—Entrepreneurs say that the oversupply of this root has reduced buying substantially. African root in future arrival position was reduced to 12½c. to 13c. per pound. Some bleached Cochin was cheaper at 16c. to 16½c.

Nutmegs — West Indian nutmegs were reduced to 77c. to 78c. per pound for spots and to 74c. to 75c. for later arrival. East Indian futures were reduced to 65c. to 66c.

Pepper — Black pepper dropped sharply to 33½c. to 34c. per pound for spot goods—and make a bid! Futures ranged 32½c. to 33c. Louisiana long chillies were lower at 20c. to 21c. per pound.

Markets at Other Centers

Los Angeles, May 7.—Botanical drugs and spices were moving slowly here this week. Supplies are scarce.

Marjoram — French type, 35c. per pound in dried form.

Sage—Dalmatian type, 34c. per pound for lots said to contain less than 2 percent stems.

Savory—French type, 75c. per pound.

Sweet Basil—90c. per pound for lots containing less than 12 percent stems.

Thyme—French type, 90c. per pound in dried and clean form.

Trade Briefs

Eli Lilly & Co. has appointed as directors E. S. Retter and A. H. Fiske.

Dr. S. H. Jaros has joined the medical department of Burroughs Wellcome & Co.

Burroughs Wellcome & Co., pharmaceutical manufacturer, is planning to open a new warehouse at 608 Folsom street, San Francisco, about the end of this year.

Drugs and chemicals imported into Hong Kong from the United States during 1946 were valued at $9,516,868, compared with a total import value of $28,338,475.

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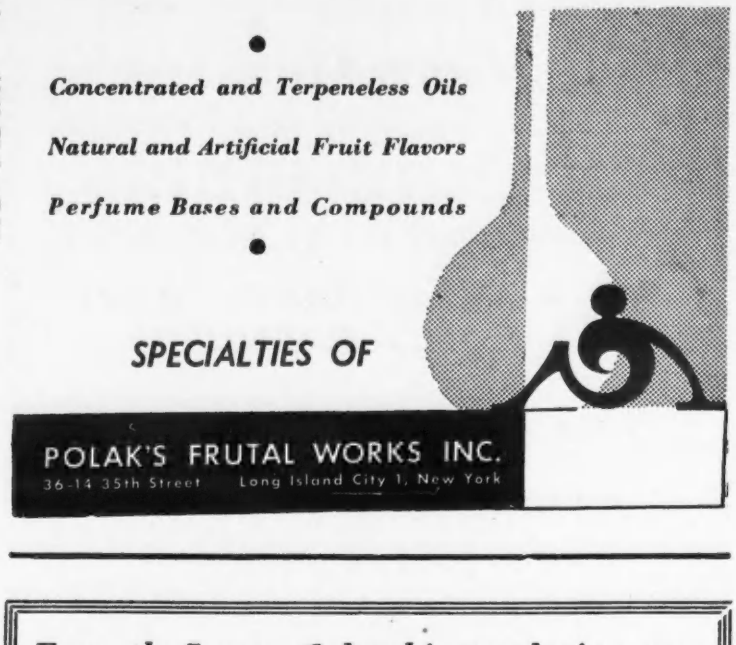
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Standards Ass'n Issues Catalogue

The American Standards Association has issued a new catalogue containing a list of approximately 200 standards covering safety and industrial health, which is now available to safety engineers, legislators and others interested.

The twenty-page booklet not only lists the standards, but gives a brief description of their contents to make it easier for those interested to locate standards concerning their own particular field.

Meyer & Co. Opens Oregon Office

Wilson & George Meyer & Co., chemicals sales organization, San Francisco, has opened a new office in Portland, Ore. John A. Foster, former assistant in the firm's Seattle office, has been named as branch manager of the new enterprise.

Spice Traders

—Continued from page 7

tions prevailing, there was the fact that natives in West Java have been reported as desiring secession from the Indonesian Government, with the protection of the Dutch.

Although conditions concerning pepper were most uncertain, members of the association were told that about 2,000 tons of the spice are expected to arrive in this country during July and August.

Primary Costs Higher

Although supplies are fairly well known, it was pointed out that prices are higher because costs are going up in primary markets. This was due to several factors, it was explained, including production problems due to labor unrest, strikes, riots, government interference, and freightage charges.

It was felt, however, that prices today are not exceptionally high, except for the three items in scarce supply whose prices will drop as soon as regular shipments begin arriving in the United States.

Outlook for Recession

Dr. Marcus Nadler, professor of finance at New York University, luncheon speaker at the opening day's sessions, gave a review of the outlook for business.

The most discouraging factor in the American economy, he said, is the fact that building activity is lagging and that many important and large-scale projects have either been cancelled or indefinitely postponed.

"It is quite certain, Dr. Nadler declared. "that the recession in which some industries find themselves will widen and embrace others in the not distant future. The outcome will depend primarily on the movement of commodity prices. A moderate decline in prices and notably of food products, would increase real income and enable many families to spend more on commodities other than basic necessities. This is naturally bound to have a favorable effect on the economy of the country as a whole.

"Ordinarily, a decline in prices is interpreted to indicate a decline in business activity. This is not the case at the present time, since a decline in prices, notably in the cost of construction, would make possible the fulfillment of many accumulated demands. A decline in prices can be brought about primarily by an increase in efficiency of management and labor as well as by a reduction in the cost of distribution.

"During the past few years merchandise has sold itself and the element of competition played only a minor role. From now on, however, competition is bound to be keener than perhaps ever before and many business men will be forced to relearn the lesson that prices are determined by demand and supply.

"It will teach many workers the old truth that the American standard of living is based on high wages and high productivity which make possible relatively low prices. The sooner this lesson is learned, the sooner the United States will be on the road to post-reconversion prosperity. While business activity and the national income will remain at a high level during the next few weeks a decline is inevitable. How far the decline will go and how long the recession will last will depend on the movement of prices and the efficiency of labor."

Gourmet Luncheon

This year the association departed from the custom of giving an annual dinner during its three-day convention by creating instead a gourmet luncheon. Attended by 200 food editors and spice men, the luncheon celebrated the return of spices that had long been scarce on America's tables.

While during the war the association aided the housewife in using available spices and making substitutions that still kept her menus sprightly, the postwar message is that the return of favorite spices such as pepper and cinnamon gives her greater variety of flavor in her meal planning.

Granada Spice Monopoly

Discussion at the closing session of the convention centered around legislation proposed by the colonial government of Granada, British West Indies, which, it was claimed, would create a monopoly in the distribution of nutmegs and mace.

Upon recommendation by the brokers' section of the association, a resolution was unanimously adopted to have the organization register strong protests through all government and trade channels against passage of such legislation.

The measure in question would set up a produce association for the distribution of nutmegs and mace which would exercise controls on these commodities from the time of harvest. Such action, according to the spice brokers, would take nutmeg and mace out of a free competitive market and create a monopoly.

The brokers claimed to have reliable information that the association set up by the Granada government plans to market these spices direct to the American consumers and to control prices by eliminating the brokers and importers who now operate competitively. It was predicted that the main objective behind this action, and the almost-certain result of it, would be to raise the prices to the consumer. Aside from price considerations, it would result in putting American brokerage and importing firms out of the nutmeg and mace business.

Granada is estimated to supply half of this country's annual needs of the spices in question, amounting to about 2,500,000 pounds of nutmeg and 750,000 pounds of mace.

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Petroleum Derivatives

Further gloom was cast last week on the outlook for any relief from the prolonged shortage of petroleum products by labor difficulties that shut down several refineries and have caused many oil men to fear an acute shortage, rather than the merely tight supply situation that was previously expected.

Loss of production caused by strikes and the Texas City disaster has already resulted in some tightening of the general supply situation, and many quarters fear that it could cause a severe shortage of fuel oil next Winter if the strikes are prolonged.

Gasoline demand was reported to be on the increase in some sections, while in others continuing poor weather was blamed for the delay in the expected heavy demand.

In view of this increasing gasoline demand and the vigorous attempts of suppliers to accumulate sufficient stocks of fuel oils to meet the Fall and Winter demand, the outlook for additional supplies of petroleum derivatives was anything but bright. A particularly dim view was being taken by producers in the solvents and diluents section, who can foresee no improvement in the supply situation for some time to come.

Transportation difficulties continued to beset the industry, being particularly felt by the producers of fractionated materials, who have been faced for some time with a shortage of high-pressure tankcars and bottles.

One major west coast producer has announced a reduction of three-tenths of a cent per gallon in retail and tankwagon gasoline prices, but has increased prices on fuel oil and light fuel oil 20c. a barrel, and diesel, furnace and stove oil, seven-tenths of a cent per gallon.

At the same time, the west coast producer's quotations on lacquer diluents, mineral spirits and cleaners naphtha have been hiked from eight-tenths of a cent to one and three-tenths cents, and petrolatum prices have taken corresponding increases.

Solvents and Diluents

Aromatic Solvents—Tight supply situation that has prevailed for some time continued to reign during the past week, with most producers still able to fulfill current demand, but with no prospect in sight for building up of stocks. Petroleum toluol and xylol continued to attract lively interest and were reported to be in good supply in most areas.

Cleaners' Naphtha—High call for this material continued to be received, with supplies generally sufficient to insure current deliveries. Movement of materials was reported to be brisk in most areas, with ample stocks on hand to insure current deliveries. However, many suppliers were uneasy about the future effect of the gasoline shortage on both regular and high-flash cleaners' naphtha. San Francisco price for the regular grade was being quoted at 15.3c. per gallon in tankcars, including state tax.

Lacquer Diluent—Continued to be in fairly good supply in most quarters of the market, despite the sustained high demand. Both the benzol and toluol types were receiving considerable attention, and movement of materials was reported to be on a current basis. One major west coast producer is quoting 11.8c. per gallon in tankcars at Los Angeles, and 12.8c. per gallon in tankcar quantities at Seattle, Wash., and Portland, Ore.

Mineral Spirits—Very high demand continued to put a strain on supplies of this product, but most suppliers were still making current deliveries. California prices show an increase of from eight-tenths cent to one and three-tenths cents per gallon in tankcar quantities, but quotations in other areas are holding firm at former levels.

V. M. & P. Naphtha—Peak production of this material is still unable to exceed the very heavy demand that has been maintained for some time. Most producers continued to take a dim view of the future supply situation in the light of the predicted gasoline shortage, and were inclined to be pessimistic of their ability to meet heavy demand later in the year. For the present current deliveries were being made and most buyers were having little trouble obtaining supplies.

Lighter Fractions

Butane—Reported to be in fair supply in most sections of the market, with buyer interest sustained at the prevailing high level. Production continued at near capacity and movement of materials was said to be satisfactory and on a current basis.

Hexane—Demand still running high enough to cause a slight tightening of the supply situation, but stocks continued to be equal to meeting current needs. Prices remained steady with the 60-70 degree industrial grade being quoted at 10¾c. to 11¼c. per gallon in tankcar lots in the Group 3 area.

Pentane—Consumer demand has remained high for the past several weeks, and supplies were said to be equal to the call. Most producers had sufficient stocks on hand to meet current requirements and shipments were reported to be prompt. Prices remained unchanged.

Propane—With all production plants operating to peak capacity, the prevailing tight supply situation with regard to this material might show some improvement were it not for the persistent shortage of high-pressure tankcars and bottles that has hampered shipments for some time.

Petrolatums and Waxes

Microcrystallines—Heavy demand from industrial users has kept production at peak levels, but regular contract customers have absorbed almost the entire output, effectively preventing any representative quantities from appearing on the open market. Prices remained firm at former levels.

Paraffin—Prevailing tight market situation continued throughout the past week, with repeated calls from the food-packaging industry straining supplies of these waxes to the breaking point. Export buyers continued to be on the market, but peak production is just not capable of supplying the needs of all purchasers. Firm prices remained unchanged during the period under review.

Petrolatums—Some slackening of the tight supply situation has been reported over the past few weeks, but it has not been enough to put the market in what could be termed free supply. Additional quantities were available to export buyers, but the persistent shortage of drums and shipping containers continued to hamper the movement of materials. General increases in prices of most petrolatums were reported from California, but quotations in other sections remained at former levels.

White Mineral Oils—Good supplies of these oils continue to be available, but are still dependent on the availability of drums and shipping containers, which has prevented any substantial increase of shipments.

Market Trends

Prices Advanced

Fuel oil, furnace, tanks, at refinery
California, diesel, 7/10c. per gal.
Lacquer diluent, California, 100 i.b.n., 200 c.p., tanks, dlvd., Los Angeles, 8/10c. per gal.
Seattle, Wash., 8/10c. per gal.
Portland, Ore., 8/10c. per gal.
Mineral spirits, California, San Francisco, 170-250 b.r., tanks, 8/10c. per gal.
205-290 b.r., tanks, 8/10c. per gal.
244-362 b.r., tanks, 8/10c. per gal.
307-360 b.r., tanks, 3/10c. per gal.
312-402 b.r., tanks, 1 3/10c. per gal.
362-458 b.r., tanks, 1 3/10c. per gal.

Prices Reduced

None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended April 26 totaled 235,383,000 barrels, according to the Bureau of Mines. Compared with the total of 234,051,000 for the preceding week, this represents an increase of 1,332,000 barrels, comprising an increase of 1,379,000 barrels in stocks of domestic crude and a decrease of 47,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline bearing stocks, totaled 5,841,000 barrels, an increase of 41,000 barrels.

For Late Market Developments, See Page 4

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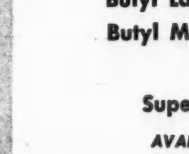

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Protective Coatings Materials

Lead and zinc pigments of all types remained in short supply last week, with prices firm. The Office of International Trade removed export curbs on titanium dioxide and titanium extended pigments effective May 1. They may be exported on general license to all destinations in group K. Supply was insufficient to meet demand and prices were firm. Synthetic iron pigments remained tight and domestic earth colors were freely available.

Iron blues were reported to be easing with deliveries more prompt. Chrome greens were in ample supply to meet demands with deliveries fairly prompt and prices firm. Chrome yellows and chrome oranges, despite the lead shortage were relatively free with producers getting caught up with back orders. This situation was made possible by the fair market situation of the dichrome intermediate. Prices were firm. Reports of an anticipated short supply of dichrome in the near future may cause the chrome yellow market to tighten in the next few weeks. Organic toners using betanaphthol were in very tight supply because of the shortage of this intermediate, and phthalocyanine blue and green continued short because of the scarcity of phthalic anhydride. Both revert to the shortage of napthalene.

Strikes in the plants and refineries of a petroleum company from which the plants of several channel black manufacturers in the Borger, Texas, area draw their natural gas, has caused twelve of these carbon plants to shut down, cutting off 30 percent of the available supply of this vital material to the rubber industry.

Effective May 8, stearic acid dropped another 5 cents per pound. This drop is soon expected to show its effect in the price of stearates. The major producers of normal butyl alcohol and butyl acetate dropped the price of these materials 2 cents a pound. One large producer of alkyd resins and other synthetics dropped prices on most of their materials by 10 percent.

Turpentine dropped last week at Savannah to 52 cents per gallon, and rosin prices fell on the various grades from 45 cents to a dollar per hundred pounds. An effort will be made by the American Turpentine Farmers Association to have government price support restored. Parity price on turpentine for May was set at $1.063. Shellac prices held firm in an easing market.

Market Trends

Prices Advanced

None

Prices Reduced

Butyl alcohol, normal, 2c. per lb.
acetate, normal, 2c. per lb.
Rosin, gum, B, 25c. per 100 lbs.
D, 85c. per 100 lbs.
E-F, $1 per 100 lbs.
G-K, 75c. per 100 lbs.
M, 55c. per 100 lbs.
N-WG, 60c. per 100 lbs.
WW-X, 45c. per 100 lbs.
Turpentine gum, 15½c. per gal.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
175.0	179.8	179.8	140.2

(For Current Prices see Page 9)

Prime Pigments

Lead Pigments — The market for these materials was still strong with no change in the general supply situation. Basic carbonate and basic sulphate white lead were being supplied against a backlog of orders. Red lead and litharge were not eased last week, and prices remained firm. Some 500 cases of litharge were imported from Tampico last week.

Zinc Pigments—Zinc oxide of the French and American process and the various leaded zinc oxides remained tight. The nation's plants were operating at full capacity and the only hope for an easing of the market laid in the direction of lessening demand. This was considered unlikely with the painting season just beginning, and the heavy demand from the rubber industry. Lithopone and the barium, calcium and magnesium extended pigments were in an ever tightening supply. Prices on all types of zinc pigments remained firm.

Titanium Pigments—The removal of export curbs on titanium pigments by the Office of International Trade, effective May 1, may well make the supply of titanium dioxide and the barium, calcium, and magnesium extended pigments more scarce than they are now. The removal of these items from the positive list, permitting their exportation on general license to all destinations of group K, opens the door to further deletion of the American supply. However, the general feeling was expressed in most quarters that the lifting of export curbs would not be significant because of the desire of the main producers to take care of domestic customers first. It was hoped this feeling will be proven to be founded in fact.

Meanwhile demand for all titanium pigments by the paint, rubber, paper, and plastic industries, as well as other users remained in very considerable excess of supply. Prices were unchanged and expected to remain firm.

Iron Oxide Pigments—Prices on synthetic iron oxide and hydrate pigments of all colors remained firm last week, with the supply situation unchanged from it stight position of recent weeks. Small amounts of Spanish oxide continued to come in but lack of shipping caused by the coal situation continued to hamper deliveries. Some 2,240 bags of Spanish oxide arrived from Southampton last week. Domestic ochres, yellows and browns were fairly available. Prices were firm.

Iron Blues—Chinese, Milori and Prussian blues were in a generally easing supply last week. Shipments were still running behind delivery, but the usually long wait had decreased considerably. Prices were firm, and demand was strong.

Hansa Yellow—The market for his pigment remained tight. Although domestic demand is never considered heavy, the pressure of export demand tends to keep the market strong.

Chrome Yellows and Oranges—In recent weeks the supply situation on the dichrome intermediate used in manufacturing these colors has eased very considerably, making these colors relatively free in supply despite the lead shortage. Manufacturers were able to catch up with back orders and the inventories of paint manufacturers reached the highest peak in a long time. Prices remained firm at 24 cents per pound. Last week the chief limiting factor on lead chromate pigment production was the lead supply situation. However, it was reported that the current free flow of these materials will be of short duration because of a tightening supply situation developing for the dichrome intermediate. If this situation develops to a critical point, its first effect will, as usual, be shown on the chrome yellow supply considerably in advance of its effect on greens.

Chrome Greens — The supply of chromium oxide and chromium hydrate were reported to be fair and prices firm. Chrome green pigments of various shades made from iron blue and lead chromate were eased and deliveries were considerably improved. The basic reasons for this situation are evident from the comments made on iron blues and chrome yellows. The supply situation on chrome greens has made the demand for acetate greens considerably lessened. Prices for chrome green CP colors remained firm at a range around 42 cents per pound.

Molybdate Orange—Prices for this pigment ranged from 38 to 39 cents last week. The market was strong in view of a tight supply situation.

Orange Toners — These pigments were in very tight supply, both the bleeding and the non-bleeding types. Reasons for their shortages were attributed to shortages of betanaphthol which goes into both types, 2, 5-dichloraniline which goes into the

For Late Market Developments, See Page 4

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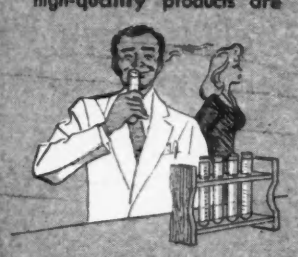
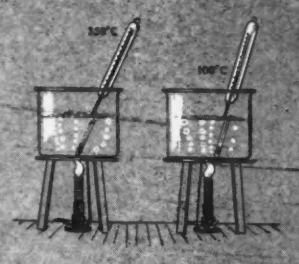


GOOD ODOR



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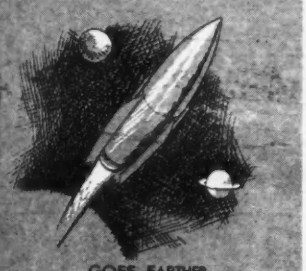

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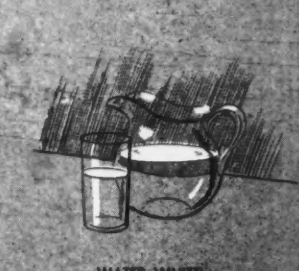

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permanent type and orthochloroparanitroaniline which goes into the manufacture of the lower priced bleeding type.

Phthalocyanine Blue—Prices remained firm on this pigment, although the demand far exceeds the supply. Its tight supply position was attributed to the shortages of such intermediates as phthallic anhydride. Its manufacture is also affected, of course, by the alkali situation.

Carbon Black—The seven day old strikes in the plants and refineries of a petroleum company at Borger, Texas, from which twelve carbon black plants in the Borger area drew natural gas, has caused these plants to shut down. This shutdown amounts to a 30 percent curtailment of overall production of channel black which is used in the manufacture of automobile and truck tires. This of course will have its effect on the production of tires.

Fillers and Extenders

Mica, barytes and magnesium silicate remained strong during the past week, with whiting readily available. Prices were firm.

Synthetic Resins

Vinyl Resins—Strong demand for vinyl polymeric resins by the plastics industry made the market for these materials very tight far exceeding the supply. Vinyl modified and acetate-chloride resins for the protective coatings industry were available but very tight, and vinyl butyral resins were in short supply. Prices on all vinyl resins remained firm.

Acrylic Resins—Acrylic polymers of the various alkyl types were available in not too large quantities, but the pressure of demand from the plastics industry and protective coatings made the market generally strong. Prices were firm at their usual high level.

Maleic Resins—With the demand for maleic anhydride far exceeding the available supply due to pressure from resin manufacturers attempting to use maleic anhydride as a whole or partial replacement for phthalic anhydride in some of their products, together with the demand for its use in maleic treated fast drying and fast bodying linseed oils, as well as its normal use in rosin modified resins has created an exceptionally tight market for maelic resins. While these materials were in short supply, prices held firm. No relief in this situation is anticipated in the near future.

Phenolic Resins—Alkyl substituted phenolic resins and their modified derivitives remained in tight supply last week, with paradihydroxydiphenyl phenolic resins readily available. The market was generally strong and prices firm.

Alkyd Resins—One large producer reduced prices generally by 10 percent. The market was very strong and shipments were being made against a backlog of orders. Other producers held prices firm. The shortage of phthalic anhydride continued to make the supply of these resins one of the paint industry's critical problems.

Natural Resins

The natural resin market remained very quiet last week, with not much trading even in those resins which were readily available on spot delivery. This trend is primarily attributed to the rather high price structure in view of the competition of synthetics. The attitude of the Dutch government in maintaining a high price schedule which cannot be sustained by the American market currently diverts most shipping to Europe. The uncertainty of future Dutch government policy in this regard makes American buyers unwilling to risk purchases of material which might suffer a heavy drop in price while in transit, should such price policies be suddenly relaxed. Imported last week were 120 cases and 665 bags of damar, thirty cases and fourteen drums of elemi, and 170 bags of copal gum.

Naval Stores

Through May 29 the parity price on gum turpentine is $1.063 per gallon while parity on rosin was set at $5.77 per hundred pounds net, the Produc-

DRY PIGMENTS OFFERED

5,000 lbs. Rhodomine Lakes
1,800 lbs. Rubine Toner
5,000 lbs. Orthonitraniline Orange Toners
7,000 lbs. Green Lakes
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1,500 lbs. Peacock Blue
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tion and Marketing Administration announced.

Turpentine—Gum turpentine on the Savannah market dropped from a low one week ago of 69¾ cents to a new low last week of 52 cents, which is 54 3/10 cents below parity. This drop to 52 cents as compared to 87½ cents three weeks ago and $1.50 last November has caused very considerable concern to the American turpentine farmers.

Turpentine demand was virtually non existant most of last week. Unlike rosin there is no continuous demand for turpentine. Paint manufacturers have been using petroleum derived substitutes. Turpentine also has practically no foreign demand whereas rosin is continuously demanded for export.

The major producers of steam distilled turpentine and sulphate turpentine have essentially withdrawn from the market in view of the unsettled conditions, and are awaiting steadiness in the gum turpentine market before quoting prices.

The New York turpentine market quoted spot prices at the mid-week of 80 cents per gallon on gum turpentine in drums.

Chicago, May 7.—Chicago prices for gum turpentine were 75c. per gallon in five-drum lots, and 80c. per gallon in single drums.

Rosin—Despite the rapidly dropping market in rosin, the peculiar condition of the market is that rosin is not abundant, and New York dealers describe the market as tight. What rosin is being bought, is bought at premiums of 20 to 30 cents above the Savannah price quotations.

Producers of wood rosin are reported to be waiting to see what happens in the gum rosin market, and there was a general feeling that prices would firm. Relative to the attempt to have the government restore its agricultural price support program to turpentine and rosin, it was felt in some quarters that there was little chance of this. These commodities are not among the government's basic five commodities, and it was felt that this fact together with the increasing governmental attitude toward economy, would cause such a proposed program for rosin and turpentine to meet strong Congressional opposition.

During the last week, rosin dropped 25 cents per hundred pounds on B grade; 85 cents on D; 1 dollar on E and F; 75 cents on G to K; 55 cents on M; 60 cents on N and WG; 45 cents on WW and X grades.

The New York rosin market quoted $8.25 per 100 pounds for H rosin.

Chicago, May 7.—Rosin was being sold in Chicago with active interest but little trading at the following five-drum lot prices:—B grade, $8.75; G grade, $9.05; M, $9.40, and WW, $9.80.

Savannah, May 8.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted				
	Fri.	Mon.	Tues.	Wed.	Thurs.
B	$7.00	$7.00	$6.75	$6.75	$6.75
D	7.00	7.00	6.75	6.75	6.75
E	7.00	7.00	6.75	6.75	6.75
F	7.00	7.00	6.75	6.75	6.76
G	7.00	7.00	7.05	7.00	7.00
H	7.00	7.00	7.05	7.00	7.01
I	7.00	7.00	7.05	7.00	7.01
K	7.00	7.00	7.05	7.00	7.01
M	7.40	7.40	7.40	7.30	7.01
N	7.80	7.50	7.50	7.40	7.30
WG	7.80	7.50	7.50	7.40	7.40
WW	7.80	7.80	7.80	7.70	7.70
X	7.80	7.80	7.80	7.70	7.70
	Drums				
Sales	199	115	117	210	18
Receipts	520	33	1,068	909	97
Shipments	...	...	...	794	...
Stocks	2,055	1,992	3,060	3,175	3,272

Savannah, May 8—Following is a record of the turpentine market for the week:—

	Bulk gallons—Cents.	Sales.	Barrels—Receipts.	Shipments.	On hand.
Friday	60	162	389	78	1,454
Monday	55	164	356	135	1,672
Tuesday	52	40	...	61	1,611
Wednesday	52	...	198	502	1,307
Thursday	54¼	8,450	341	78	1,570

Lacquer Materials

All major producers last week reduced prices of normal butyl alcohol and butyl acetate by 2 cents per pound.

Miscellaneous Materials

Shellac—Shellac prices were holding up to recent levels and supplies seemed adequate to meet demands by virtue of a considerable slackening of normal buying. It was reported that limited industrial demand, with no immediate pressure to encourage manufacturing, has slowed deliveries and reduced forwards. The market was definitely easing.

Glue—Total production of Glue for the month of March, according to a Bureau of Census release, was 12,537,573 pounds. This represents an increase over March 1946 of 1,175,416 pounds, and a decrease from January production of 1,401,630 pounds. During March bone glue production totaled 6,690,557 pounds and hide glue production totaled 5,847,016 pounds. Some 600 bags were imported last week.

Casein—Production of casein for the first quarter of 1947 was 458 percent higher than for the same period last year. Stocks were reported to be higher at this date than at any comparable time during the last two years. Stocks at March 31 were 23 percent above March 31 a year ago.

Frisco Paint Technicians Discuss Use of Driers

L. E. Anderson, of Nuodex Products, Inc., Elizabeth, N. J., presented a paper on the effect of driers on the chemical and water resistance of aged varnish films at the monthly meeting of the Golden Gate Paint and Varnish Production Club, held at the El Jaruin restaurant in San Francisco.

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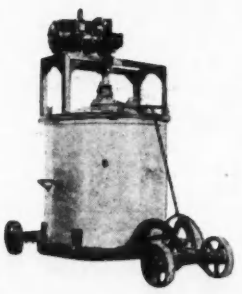

Many companies throughout the country choose BRIGHTON equipment because it's efficient—thus economical. This dual purpose portable kettle is primarily designed to handle synthetic resin. By removing lid and agitating assembly it becomes a varnish kettle. Fabricated in various metals such as stainless steel, nickel, copper, etc. *Write today for Brighton's illustrated catalog.*

Carbon Black Use In Tires Described

Dr. W. R. Smith, chief research chemist of Godfrey L. Cabot, Inc., manufacturer of carbon black, Boston, recently addressed the student chapters of the American Chemical Society and the American Institute of Chemical Engineers at Northwestern University.

After pointing out the vital role which carbon black plays in adding road wear to the modern automobile and truck tire, he took note of improvements in methods of manufacture which have more than doubled production during the last four years, but said that technological advances are still being made, and emphasized to the students the challenge which research and development in the carbon black field offers to chemical engineers of the future.

Pitts. Paint Technicians Hear Varnish Lecture

Frank Oswald, of the synthetic division of Hercules Powder Company, was guest speaker at the monthly meeting of the Pittsburgh Paint & Varnish Production Club, held on May 5 at the Fort Pitt hotel. His subject was "Varnish Preparation."

Consideration was given to the new constitution and by-laws of the organization, and it was decided to defer voting on them until each member had been contacted by mail and given an opportunity to express his opinion.

U.S.I. Lowers Prices On Synthetic Resins

For the second time since the end of price controls, United States Industrial Chemicals, Inc., has reduced the prices of synthetic resins, this time approximately 10 percent. Reduction was said to be due to lowered costs and improved production methods despite the current shortage of raw materials.

N.Y. Paint Technicians Outing on June 7

The New York Paint and Varnish Production Club has announced that its annual outing will take place at the Jumping Brook Golf and Country Club, Neptune, N. J., on Saturday, June 7. Golf, tennis, ping pong, horseshoe tournaments, and a softball game, will be featured.

Fullers Earth Plant To Be Built in Florida

Fullers earth will be produced at the Nodulite Aggregate Plant, Ellenton, Fla., according to plans being made by the Floridin Company, Quincy, Fla., who intends to purchase the plant from the Reconstruction Finance Corporation for this purpose.

A.O. Ford Observes Seventy-fifth Year

Arthur Oakley Ford, vice-president in charge of operations for the Montrose Corporation, Brooklyn, N. Y., was honored May 7 with a party in Delmonico's restaurant, New York, in observance of his seventy-fifth birthday.

Mr. Ford, who has been with Montrose for approximately twenty-five years, formerly was with Marx & Rawolle as sales manager.

Pliofilm Plant Planned in Britain

Goodyear Tyre & Rubber Company (Great Britain), Ltd., is building a factory at Wolverhampton, U.K., for the production of pliofilm. Capacity of the plant is expected to be sufficient to meet the packaging needs of the British Isles.

Paint Industry Congress To Be Held in Paris

An international technical congress of the paint and allied industries will be sponsored in Paris beginning October 5, by the French Minister of Industrial Production Organization and will be organized and conducted by the federation and technical group of the paint and varnish industry of France. Invitation to attend has been extended to all members of the American industry.

Sun Chemical Acquires Electro-Technical Products

The Sun Chemical Corporation, New York, has acquired Electro-Technical Products, Inc., manufacturer of bottle cap liners, rubber separator cloth, and electrical insulation, whose plants are in Nutley, N. J., and Los Angeles. Robert S. Robe will act as president of the newly-acquired division.

The Chicago office of the General Printing Ink division of Sun Chemical, headquarters for the entire Midwest area, has moved into new quarters at 42 North Racine street.

Trade Briefs

H. Vernon Smith, secretary and technical sales director of the McDougall-Butler Company, paint and varnish manufacturer, Buffalo, N. Y., has been elected to the board of directors.

Paint, varnish, ink, colors and dyes imported into Chile during the period January-October, 1946, were valued at $1,830,000, an increase of 31.4 percent over 1945. Exports of these materials during the same time were valued at $46,000.

Wailes Dove-Hermiston Corporation, Westfield, N. J., a subsidiary of Koppers Company, has released a pamphlet describing Koppers 'Bituplastic,' a new plastic protective covering that is said to waterproof and vapor-seal.

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GILSONITE—Selected Ore. Various melting points.
MANJAK—Blackest of asphalt. High melt point.
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AGENTS AND STOCKS IN PRINCIPAL CITIES

German Resin Formulas Available

OPD Washington Bureau

The formulas and process develop of fifteen German manufacturers of synthetic resins used in paints, lacquers, varnishes, textile emulsions and molding powders are described in two reports for sale by the Office of Technical Services, Department of Commerce.

Production methods for dozens of surface-coating materials are described in a 141-page general report, which is supplemented by a report on specific developments at the Chemische Werke Albert at Weisbaden. Both reports were prepared by investigators for the British Intelligence Objectives Sub-Committee.

The fifteen plants manufactured a wide variety of synthetic varnish resins known as Albertols, Alresenes, Alnovols, Phenodures, Durophenes, Alresetes, Alftalates, Resamines and Alphenates. Each classification contains many products with special properties of value in specific surface coatings. Formulas and production methods underwent considerable change during the war when such raw materials as glycerol and fatty acids became scarce. Standard and modified processes for the products in each classification are described individually in the general report, which also contains a revised coded system of nomenclature.

The Chemische Werke Albert, which produced large tonnages of phenolic, alkyd and urea resins before the war, developed many wartime shortcuts, including a special resin kettle and a turpentine still with balsam filters. In addition to a wide range of synthetic varnish resins, the Weisbaden plant produced molding powders based on Novolak and ammonia-free Resol rosins, resin size and glues for paper, protective coatings for building materials, fertilizers, weed killers and animal foodstuffs. The 47-page report contains detailed descriptions of process methods, formulas, production figure, together with diagrams and photographs of plant layout and special equipment.

Orders for the reports PB-52858; (Investigation of Synthetic Resins used in the German Surface Coating Industry; microfilm, $3; photostat, $10; 141 pages) and PB-58269; (Synthetic Varnish Resins and Moulding Powders at Chemische Werke Albert, Wiesbaden; microfilm, $1; photostat, $4; 47 pages) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the Pnited States.

Mimeographed copies of the reports are also available (PB-52858 for $8 and PB-58269 for $4) from the Hobart Publishing Company, Box 4127 Chevy Chase Br., Washington 15, D. C.

Foreign Sales Leads

Aluminum sulphate, Porto Alegre, Brazil (Q-1).

Caustic soda, Porto Alegre, Brazil (Q-1); Sao Paulo, Brazil (Q-2); (Q-5).

Chemicals, Rio de Janeiro, Brazil (Q-6); Sao Paulo, Brazil (Q-7).

Cosmetics, Rio de Janeiro, Brazil (Q-6).

Industrial chemicals, Rio de Janeiro, Brazil (Q-4).

Industrial raw materials, Sao Paulo, Brazil (Q-5).

Paint, Porto Alegre, Brazil (Q-9); Rio de Janeiro, Brazil (Q-8).

Pharmaceuticals, Rio de Janeiro, Brazil (Q-6).

Photographic materials, Rio de Janeiro, Brazil (Q-8).

Pitch tar, Porto Alegre, Brazil (Q-1).

Plastic materials and plastic machinery, Fortaleza, Brazil (Q-3).

Plastics, Rio de Janeiro, Brazil (Q-4).

Powdered milk, Sao Paulo, Brazil (Q-2).

Tanning materials, Porto Alegre, Brazil (Q-1).

Soap Supply Increase Continues in Jan.-March

The Association of American Soap & Glycerine Manufacturers has reported that the soap supply situation continued to improve during the first three months of this year. Total sales in the quarter excluding liquid soaps, were 678,379,000 pounds, an increase of more than 75,413,000 pounds over the fourth quarter of 1946.

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Chrome Yellows
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Toluidine Reds
Para Reds, Iron Blues
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Oils, Fats and Waxes

Further reduction in prices of oils and fats featured the market last week. Business was practically at a standstill and buyers were backing away from the market after each decline. Trading was restricted to occasional carlots and offerings were light as sellers realized the futility of pressing for business. Considerable weakness developed in coconut oil following the sale of distressed crude oil at 14 cents per pound, tankcars, f.o.b., Southwest with trading at this figure also reported on the Pacific coast. Nominal quotations were named at 1 cent higher with sellers asking for bids. Another depressing factor in coconut oil was the sharp break in copra which declined $30 per ton, during the past week. Interest in crude cottonseed and peanut oils was dull, but offerings were also limited and prices were unchanged and nominal. Corn oil was easy and off 1 cent per pound. Crude soybean oil also was easier and May delivery sold at 1 cent per pound less than previous trading. Tallow and grease were weak and were slashed 2 cents per pound, with buyers later reducing bids another 1 cent. Decline in tallow, resulted in the reduction of 5 cents per pound for stearic acid and red oil. Resale oil continued to affect the linseed oil market and with demand slow, prices were merely nominal. Resale oil was reported available from 2 to 3 cents per pound below, crushers nominal quotations. Tung oil was easier under increased stocks and lack of buying interest. Prices were nominal and off at least 2½ cents per pound. Dehydrated castor oil also was dull and nominal and could have been shaded on firm bids for sizable quantities. Lard and hogs were lower, and shortening was reduced 2 cents per pound.

Carnauba wax was easier and a further reduction was noted for all grades. Demand was inactive and the market was unsettled by offers of resale lots at concessions. Beeswax was dull and lower. Ouricury also was easier especially, the refined grade.

Cottonseed Oil

Although trading in futures was extremely light last week, the lack of selling pressure and attempts of shorts to cover, gave the market a stronger tone and advanced quotations for July-forward deliveries. Lard and other vegetable oils were weaker, but did not affect the futures market. Trading in crude cottonseed oil was practically at a standstill and the market was unchanged and nominal at 25c. per pound, tankcars, f.o.b. mills.

Trading in cottonseed and soybean oil futures on the New York Produce Exchange will close Saturdays starting May 31 through August 30, 1947, it was announced last week.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended Thursday, May 8, follow:—

	Sales	Cents per pound—High	Low	Close
May	..	..	..	26½@28
July	5	26½	26	26.55 bid
September	1	21½	21	21½@22
October	..	..	..	20.35 bid
December	2	19	18½	18½ bid
January	..	..	..	17½ bid
March	..	..	..	18 bid

Total sales, 8 contracts.
Crude oil was nominal at 25c. per pound, tankcars, f.o.b. mills.

Memphis.—Trading in crude cottonseed oil almost at standstill. Last sales were made at 25c. per pound, tankcars, f.o.b. Valley. Cottonseed meal stocks were reduced. Firmer grain markets and further allocations for export have strengthened cottonseed and soybean meals.

Linseed Oil

Quiet demand and offerings of resale oil at low prices continued to depress the linseed oil market. Consuming inquiry for prompt and nearby needs, was conspicuous by its absence and the demand for oil delivery on former contracts was reported to have been sharply reduced. It was difficult to obtain a stable price as the market was a nominal affair. Offers of resale raw oil were heard at 35c. and less for tankcars and trading was reported below this level. Crushers quoted raw oil nominally at 38c. per pound, tankcars, which was considered above what consumers would pay, even should resale oil be cleaned up, in view of the lower costs of tung and other drying oils.

Replacement linseed oil was reduced 3c. per pound. Tankcars were quoted at 33c. per pound and at 34c. per pound, drums carlots. Demand for this oil was confined to small lots for immediate requirements.

Minneapolis—The spot oil market was extremely quiet as the transition between old and new crop started, prices ranging from 34.5c. to 37c. a pound in zone 1 as resellers dominated the picture. First offerings of new crop Texas oil were made on the basis of 33.5c. in zone 1, setting the pattern for dealings on the new crop at a level about 1 to 1.5c. under what local crushers had set up for July-September asking prices. Most of the selling pressure appears to be coming from the East, but middle western dealers find supplies ample and show only modest interest in offerings. Crusher production was sharply curtailed on May 1 as one of the largest mills shut down and present rate is estimated at 14 percent of capacity. Instructions on old contracts continued good and movement held up well despite curtailed operations.

Shipments of linseed oil, in pounds, were as follows:—

	1946-47	1945-46
This week	6,120,000	7,460,000
Since Sept. 1	194,780,000	222,414,000

Flaxseed—Market was easier and cash and to arrive seed declined 50c. to $6.25 per bushel, Minneapolis, and Duluth, last week.

Minneapolis—Movement of flaxseed in the open market was down to a minimum, receipts reported at Minneapolis for the week largely representing movement of crusher-owned stocks from subterminal markets. Weather continued a large factor in the flax situation, holding up planting operations in the flax belt. Texas harvest was also being delayed by inclement weather but first offerings were coming into market and commercial buyers were paying the government support price or just a few cents over. The fact that new crop harvest in the Southwest was down to the support level caused weakness in the local cash market and bids were down to $6.25 a bushel (a loss of 75c. as compared with last week), as large buyers dropped out of the market.

Bushels—	Receipts— 1946-47	1945-46	Shipments— 1946-47	1945-46
This week	105,400	64,500	10,200	55,500
Since Sept. 1	11,599,500	18,074,500	3,750,000	3,700,300

Other Vegetable Oils

Castor, Dehydrated — Withdrawals against contracts were reported moderate, while new business was dull and limited to actual needs. Prices were nominal.

Coconut — This market continued weak and prices were sharply lower, with buying interest practically nil. Sales of a large quantity distressed crude oil was reported sold at 14c. per pound, f.o.b. Pacific coast, which further unsettled the market. Crude oil was merely nominal at 15c. tankcars, Pacific coast and it was doubtful if users would pay more than 14c. if the oil was offered in view of the easiness of competing oils and fats.

Market Trends

Prices Advanced

None

Prices Reduced

Beeswax, crude, 2c. per lb.
refined, 2c. per lb.
Carnauba wax, 5c. to 10c. per lb.
Castor oil, sulph., 1½c. to 4c. per lb.
Coconut oil, 2¾c. per lb.
Copra, $30 per ton.
Corn oil, 1c. per lb.
Flaxseed, 50c. per bushel.
Grease, 2c. per lb.
Grease oil, 3c. per lb.
Lard, 2c. per lb.
Otticica oil, 1c. per lb.
Oleo oil, 2c. per lb.
Olive oil, ref., 25c. per gal.
Ouricury wax, 2c. per lb.
Red oil, 5c. per lb.
Soybean oil, crude, 1c. per lb.
ref., alkali, 2c. per lb.
ref., clarified, 2c. per lb.
Stearic acid, 5c. per lb.
Tallow, 2c. per lb.
oil, 2c. per lb.
sulph., 4c. to 6c. per lb.
Tung oil, 2½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
220.2	237.1	308.9	193.5

(For Current Prices see Page 9)

For Late Market Developments, See Page 4

Imports totaled 541 tons at New York from Manila last week.

Copra—Prices for shipment from the Philippines were easier and the market was off about $30 per ton for the week. Copra was quoted nominal at $170 per short ton, Pacific coast and $176 Atlantic ports. Arrivals of copra totaled 3,200 tons for delivery on former orders last week. Advices from Manila stated that copra producers in the Philippines have advocated complete decontrol of the industry so that sales could be made on a word wide basis to non-members of the International Emergency Food Council. Producers have been hard hit by a sudden drop in price and the virtual complete suspension of buying by the members of the Council. However, a Philippine government official stated that the world needs for fats and oils would exceed supplies of copra for the balance of the year.

Corn—Crude oil sales were reported at 23½c. per pound, f.o.b. mills, and later in the week at 22½c., prices scoring a net decline of 1c. per pound. Inquiry was slow and the market was entirely nominal. Refined was inactive and nominal at 28c. per pound, tankcars, mills.

Oiticica—Importers reduced quotations for prompt and nearby shipment but were not offering. Supplies for spot delivery were limited to several lots of resale oil. Trading was inactive, and prices were entirely nominal. Tankcars were quoted at 29c. per pound; drums at 30c., carlots and smaller lots at 30½c. Imports totaled 51 drums at New York last week.

Olive—With demand dull, spot stocks were offered freely and the market was lower. Prices were reduced to $6.75 to $7 per gallon, drums, duty paid for spot delivery.

Peanut — Trading continued slow and prices were unchanged and merely nominal. Crude oil was quoted at 25c. per pound, tankcars, f.o.b. Southern mills, with buyers showing no interest.

Rapeseed—A record crop of rapeseed is expected in China—the world's top producer. The second forecast for 22 provinces for 1946-47 is 3,900,000 short tons, up 11 percent from the final estimate for the previous season and 44 percent from the 1930-37 average it was reported by Office of Foreign Agricultural Relations. Increases for the past two years were chiefly in Provinces held by Japan, but there has also been some expansion in southern China's production. Emergency Food Council allocations this year for rapeseed oil total 12,300 tons, equivalent to 35,000 tons of seed, or almost double China's 1935-39 rate of 20,000 tons yearly. Of this amount the United States has a tentative allocation for 2,200 tons. Rapeseed imports in terms of oil in 1946 were less than 500 tons, most of which came from Argentina and the Netherlands.

Soybean—Offerings of crude oil were not liberal, but buyers also showed little interest in the market. Crude oil was sold at 22c. per pound, tankcars, for May shipment and 21c. was asked for July-September. Refined alkali and clarified oil was reduced 2c. per pound last week. The former was quoted at 26.83c. per pound tankcars, and 27.83c. per pound, drums, carlots New York delivery, and clarified at 25.13c. per pound tankcars and 26.13c. drums, carlots, same basis.

Stocks of soybeans stored in all positions, both on and off farms on April 1, totaled about 100,000,000 bushels, the Bureau of Agricultural Economics reported. This is over 2,000,000 bushels above the April 1 stocks last year, but 9,500,000 less than on April 1, 1945. Of the April 1 stocks this year, 42,000,000 bushels were held in processing plants as enumerated by the Bureau of Census, stocks of 25,000,000 bushels on farms, and of 19,500,000 in interior mills, elevators, warehouses, and other establishments were estimated by the Crop Reporting Board; stocks at terminals were reported at 13,500,000 bushels by the Production and Marketing Administration. Disappearance for the period Jan. 1 to April 1, 1947 is indicated at about 54,000,000 bushels, of which almost 50,000,000 bushels were crushed for oil, according to the Bureau of the Census.

Teaseed—Some 1,515 drums and 200 tons were received at New York and San Francisco last week for delivery against former contracts.

Tung—Prices continued downward last week and the market was dull and easy. Tankcars were nominal at

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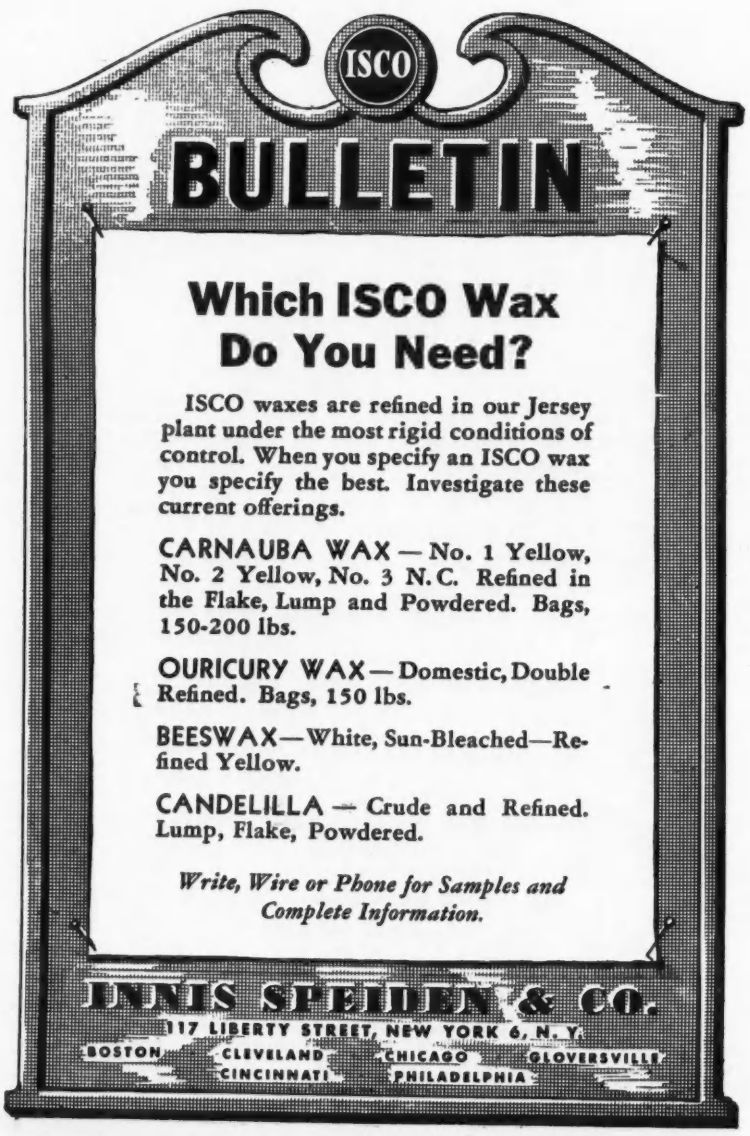
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28½c. per pound, a decline of 2½c. for the week. Consuming inquiry was reported nil. Drums were entirely nominal ranging from 30c. to 32c. per pound, according to seller and quantity. Arrivals totaled 3,974 tons and 1,155 drums at New York last week.

Oils, Fats, Output, Consumption: Mar.

The preliminary statistics of the factory production and consumption of animal and vegetable fats and oils for March, 1947, as compiled by the Bureau of Census, follows:—

	Pounds	
	Production	Consumption
Vegetable Oils		
Babassu, crude	[3]	644,000
Refined	[3]	249,000
Castor, No. 1, crude	9,822,000	8,563,000
No. 3, crude	2,958,000	2,749,000
Dehydrated	3,435,000	2,427,000
Sulphonated	[3]	303,000
Chinawood or tung oil	2,082,000	6,745,000
Coconut, crude	73,902,000	74,349,000
Refined	36,581,000	31,217,000
Corn, crude	22,259,000	23,018,000
Refined	21,678,000	8,455,000
Cottonseed, crude	68,248,000	91,050,000
Refined	83,789,000	73,351,000
Linseed	31,401,000	45,174,000
Olive, edible	141,000	18,000
Inedible	.....	63,000
Sulphur oil or olive foots	[3]	39,000
Oiticica	.....	1,478,000
Palm, crude	.....	2,859,000
Refined	.....	219,000
Palm kernel, crude	.....	[3]
Refined	.....	[3]
Peanut, crude[1]	21,141,000	21,217,000
Refined	19,919,000	11,741,000
Rapeseed	.....	1,885,000
Sesame	.....	11,000
Soybean, crude	[4]145,132,000	132,820,000
Refined	121,389,000	113,782,000
All other	1,891,000	1,382,000
Animal Fats		
Lard, rendered (including neutral lard and rendered pork fats)	125,671,000	17,183,000
Neatsfoot oil	264,000	286,000
Tallow, edible	8,656,000	8,418,000
Inedible	87,250,000	118,215,000
Fish and Marine Mammal Oils[5]		
Cod	70,000	791,000
Codliver	45,000	1,023,000
Marine mammal	.....	2,151,000
Other fish	[4]357,000	15,742,000
Other liver	305,000	583,000
Greases		
Greases (including garbage and house), other than wool	42,726,000	43,930,000
Wool grease	1,860,000	1,934,000
Secondary Products		
Animal fat and oil fatty acids	16,486,000	15,832,000
Animal foots, 100% basis	1,103,000	1,298,000
Fish and marine mammal fatty acids	2,986,000	569,000
Grease and lard oil	4,012,000	3,696,000
Oleo oil	5,336,000	552,000
Red oil or oleic acid	7,884,000	5,749,000
Stearic acid	6,415,000	5,438,000
Foots, from fish and marine mammal oil (100% basis)	[6]	449,000
Stearin, animal, edible	3,496,000	2,648,000
Inedible	2,683,000	1,896,000
Stearin, vegetable, oil, winter	5,054,000	6,587,000
Tallow oil	1,467,000	976,000
Vegetable oil fatty acids from foots and other than from foods including fatty acids from tall oil, palm oil, refuse, etc	13,039,000	10,795,000
Other Products		
Glycerin, chemically pure (100% basis)	8,450,000	6,555,000
crude (100% basis)	18,015,000	18,226,000
high gravity and yellow distilled (100% basis)	8,746,000	7,407,000
Hydrogenated oils, edible	95,426,000	98,534,000
Inedible	21,826,000	21,740,000
Shortening	138,551,000	852,000
Winterized vegetable oils	29,521,000	.....

[1] Data on production collected by Bureau of Agricultural Economics; stocks held by crude peanut oil producers also reported by Bureau of Agricultural Economics, whereas those held at refineries are collected by the Bureau of the Census.
[2] Included in "All other" vegetable oils to avoid disclosures of operation of individual establishments.
[3] Fish and Wildlife Service collected the data from fish oil producers.
[4] Includes 62,000 pounds of menhaden oil and 111,000 pounds of herring, sardine and pilchard.
[5] Includes 62,000 pounds of menhaden oil and 444,000 pounds of herring, sardine and pilchard.
[6] Not shown to avoid disclosure of individual operations.
[r] Revised.

Raw Materials Used

	Tons	
	Consumption	Stocks Mar. 31
Castor beans	13,964	14,344
Copra	59,163	72,777
Corn germs	27,863	846
Cottonseed	211,258	399,066
Flaxseed	45,802	30,223
Soybeans	[r]495,234	[r]1,259,100
Peanuts[2]—		
Farmer's stock[3]	20,946	210,779
No. 2 and oil stock[4]	7,963	17,262
Other	3,599	5,732

[1] Included in other seeds.
[2] Bureau of Agricultural Economics collected the data on consumption and stocks of peanuts.
[3] Weight shown for peanuts in shell. Stocks figures include quantities held for making peanut butter, candy, and for other uses, as well as for crushing.
[4] Weights shown for shelled peanuts. Stocks figures include quantities held at all commercial locations, principally for crushing into oil and meal.
[r] Revised.

Fats and Greases

Greases—Prices were again lower last week, the market declined 2c. per pound. Trading was moderate, with additional offers at the reduction attracting no attention. House was quoted at 13¾c. per pound, loose, f.o.b. works, yellow, 14c. and choice white, 15c., same basis.

Lard — Market trend continued downward last week and prices were off about 2c. per pound. Trading was slow and offerings liberal. Prime lard was nominal at 20c. per pound, tierces, and 17¼c. loose, Chicago. Department of Agriculture has authorized an allocation of 179,200 pounds of lard to the United Kingdom in place of an equivalent quantity of toilet soap (fat content) previously allocated to that country.

Tallow—Moderate trading was reported for the better grades at a reduction of 2c. per pound, last week. Consuming inquiry continued light and with offers fairly liberal, the market was dull and easy. Extra was quoted at 14¾c. per pound, loose, f.o.b. works, special, 14⅝c., and fancy 15c., same basis.

Animal Oils

Degras—Light trading noted for all grades, mainly for actual needs. Prices unchanged, and fairly steady. Imports totaled 135 drums at New York last week.

Grease Oil—Market was dull and easy, with pressing stock. Quotations were lower and nominal. Prime burning was quoted at 26½c. per pound, drums Chicago and common, No. 1 at 25½c., same basis.

Neatsfoot Oil—Business was inactive. Prices were unsteady and merely nominal.

Oleo Oil—Market was easier. Extra was quoted at 24c. per pound, tierces New York and 23c. loose, Chicago.

Fish Oils

Menhaden—Business continued slow and the market was nominal and reflected the easiness in other drying oils. Prices were unchanged at the recent decline.

Sardine—This market was quiet and quotations were unchanged and nominal. Inquiry for all positions was inactive.

Fatty Acids

Red Oil—Lower prices for tallow and grease were reflected in red oil, and quotations were reduced 5c. per pound for all grades. Business was slow, mainly for small lots. Single distilled was quoted at 20½c. per pound, tankcars and 21¾c. drums carlots; double, 23c. tankcars and 24¼c. per pound, drums, carlots. Drums, less carlots were 1c. higher.

Stearic Acid—Market was easier and prices were slashed 5c. per pound for all grades, as a result of lower tallow and grease. Demand was confined to small lots. Single pressed was quoted at 29c. to 30c. per pound bags, as to quantity; double pressed, 29½c. to 30½c. and triple, 32½c. to 33½c., same basis.

Cake and Meal

Department of Agriculture has announced emergency allocations of 7,500 long tons of oilcake or meal to Belgium and 2,500 long tons to Italy. These allocations will be in effect during the first six months of 1947. The claimants have been requested to purchase supplies at locations from which the movement to ports will not interfere to any great extent with the export program for food grains and flour. The allocations announced will be charged to world allocations of protein feeds for Belgium and Italy as recommended by the International Emergency Food Council.

Cottonseed Meal—There was little or no trading activity except scattered cars last week. Sacked 41 percent meal sold in a limited way at $62 Memphis, $63 North Alabama and Georgia mills. Some resale 41 percent slab cake sold at $57 f.o.b. Valley mills.

Linseed Meal—Department of Agriculture has authorized the export of 2,000 long tons linseed screenings meal to Netherlands for stock feeding. This product is rarely used in the United States for feed, and current supplies permit this allocation.

Minneapolis.—Demand for meal was rather limited and as larger offerings appeared on the market prices continued to decline. Meal, per ton, in carlots, bulk, Minneapolis, quoted anywhere from $66

to $68, with resellers active on the lower end of the price range.

Shipments of linseed meal, in pounds, were as follows:—

	1946-47	1945-46
This week	5,700,000	6,900,000
Since Sept. 1	256,740,000	304,340,000

Peanut Meal—In the Southeast planting continued at a satisfactory rate. It should be completed within a week in extreme southern sections of Alabama and Georgia, but the upper sections will not be completed until later this month. The season is fully three weeks late. The government has allocated additional 10,000 long tons of oil meals for export—7,500 to Belgium and 2,500 to Italy. If actually purchased, it is expected peanut and soybean meals will make up the bulk as there are heavier supplies of both percentage wise. Unsold stocks of peanut meal in Alabama and Georgia are more than sufficient to take care of the entire business, but so far no sales for export have been reported. Meantime, domestic demand for sacked 45 percent is dull, with only a few cars selling here and there at $56.50. Bulk, meal is offered at $3.50 less.

Soybean Meal—Sacked 41 percent was offered at $57.20 basis Memphis. Although several dollars cheaper for Southeastern mixers as compared to Decatur offerings, only a small tonnage was sold. North Carolina processors have reduced their price to $63 which is still high compared with other offerings. Market was firmer late in the week, in sympathy with higher grains and mill feeds. Mills in Decatur advanced prices $4 per ton.

Waxes

Beeswax—This market reflected in weakness in other waxes, and prices were lower. Trading was light and confined to small lots. Crude and refined grades were reduced about 2c. per pound. Crude African and Western Hemisphere were quoted at 57c. to 58c. per pound, bags on the spot. Refined, slabs were named at 60c. to 62c. and bricks at 61c. to 63c., as to quantity.

Candelilla—This market was quiet. Prices were unchanged and more or less nominal.

Carnauba—Liberal offerings and no improvement in business further weakened this market. Prices were slashed again for all grades and firm bids for sizeable quantities, it was stated, could have shaded asking prices. Chalky, No. 3, was quoted at $1.15 per pound, North country, No. 2, $1.23 to $1.25, North country, No. 3, $1.15 to $1.16, refined, $1.25 to $1.26, yellow, No. 1, $1.50 to $1.52, depending upon seller and quantity.

Japan—Demand continued slow and the quotations were unchanged and nominal.

Ouricury—Trading was restricted to small lots. Market was easy and refined prices were off 2c. per pound, to 62c. to 64c. per pound, as to quantity. Crude was unchanged at 60c. spot.

Oils, Fats Exports Up In January, February

OPD Washington Bureau

Among agricultural products recording the greatest increases in exports during January and February, 1947, were animal oils, edible fats and oil seeds, according to a Department of Commerce statement which placed the exports of foodstuffs during those months at nearly $398,000,000.

Increases in imported foodstuffs over the corresponding period in 1946 included black pepper, up 1,312 percent; prepared coconut meat, up 700 percent, and cocoa beans, 41.4 percent over last year.

Non-food agricultural products recording the greatest increases in imports during this period included copra, 340 percent; tung oil, 2,650 percent (supply entirely cut off during the war), and linseed oil, 14.5 percent.

Corn Products Sorghum Plant Gets Approval

OPD Washington Bureau

Office of the Housing Expediter last week approved plans for construction of a grain sorghum processing plant by the Corn Products Refining Company, Corpus Christi, Tex., at an estimated cost of $1,077,815; glass fabricating, processing and preparing facilities by the Hamilton Glass Company, Chicago, Ill., at an estimated cost of $241,000, and office and display rooms by the Lehn & Fink Corporation, New York, at an estimated cost of $110,950.

FAO Science Division Headed by Robertson

OPD Washington Bureau

Dr. G. Scott Robertson, permanent secretary of the Department of Agriculture of Northern Ireland, will join the staff of the Food and Agricultural Organization of the United Nations next month. He will be the first to assume the post of director of the agricultural production and science division, which he will occupy for his six-months stay.

Importers Group Elects Rosenthal President

Morris S. Rosenthal, executive vice-president and director of Stein, Hall & Co., New York, has been elected president of the National Council of American Importers.

Trade Briefs

Danish Consumer Cooperative Societies' reports indicate that output of their soap factories was valued at 6,300,000 crowns during 1945, compared with 6,100,000 crowns for the preceding year, 5,500,000 crowns in 1941 and 6,100,000 crowns in 1940.

Olive oil production in Syria and Lebanon during 1946 amounted to only 9,200 metric tons, as compared with 24,000 metric tons in 1945, due to an extremely poor olive crop. Exports of edible olive oil, chiefly to the United States and Portugal, are reported to have been between 5,500 and 6,000 tons.

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3—Sperry Filter Presses — Rubber Plates and Frames, 24" and 36", 4 cye, closed delivery.

4—Shriver 42" Cast Iron and Wood Plate and Frame Filter Presses.

4—Vallez Filters; 20 series.

4—Devine No. 11, 40"x43" Vac. Shelf Dryers; (1) 60"x160"; (1) Lab. Size.

3—Proctor & Schwartz Tray Dryers, 7'x7'x34".

1—Truck and Tray Dryer, 12'x63', oil heated.

1—Rotary Indirect Heat Dryer or Sugar Granulator, 6'x20'.

1—Louisville Steam Dryer, 54" dia. x 30' long, complete.

4—Ferguson Automatic Case Gluers and Sealers.

12—Wrap Around Labelers for Cans or Jars.

2—Mikro No. 1 Pulverizers.

22—Fitzpatrick Model D Stainless Hammer Mills, with Expl. Motors.

1—Stokes & Smith Automatic Auger Powder Filler.

4—Filler Mach. Co. S. S. Fillers, 3 to 11 Pistons.

6—Copper Pans for Coating, 20" to 38", belt driven.

1—Stokes No. 38 Electrically Heated Shelf Dryer.

2—Stainless Kettles, 500 Gal. —100 P.S.I., other sizes too.

1—Stokes No. 79D-80A Tube Filler, Closer, in Stainless Steel.

6—Stokes Rotary "D" Tablet Machines.

2—Colton Rotary 10-35 Tablet Machines.

12—Read Mixers, Jktd., Ribbon Type, 33"x34"x72".

6—Rubber Lined Tanks—1,600-3,000 Gals.

2—Steel Ball Mills, 7'7"x 10'3½".

5—Sterling Dicers.

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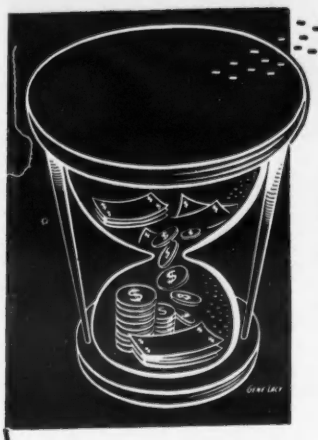

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3—5'x33' J. P. Devine ROTARY VACUUM DRYERS, welded jackets, roller bearings, speed reducer drive.

1—5'x33' J. P. Devine, riveted jacketed, ROTARY VACUUM DRYER, roller bearings, arranged for belt drive.

DRYERS

2—6' dia. x 50' long LOUISVILLE ROTARY STEAM TUBE DRYERS, each with two rows of 54 tubes, 3½" and 4", gear reducer drive.

1—5 x 26 Hersey Monel-lined ROTARY HOT AIR DRYER, with Monel-lifting flights, complete with flexitube heating units, fan, motors, hoods, cyclone.

1—Buffalo 32"x 90" Atmospheric DOUBLE DRUM DRYER, M.D.

1—B. & C. 36"x84" Atmospheric DOUBLE DRUM DRYER, Complete.

2—Buffalo 32" x 72" Atmospheric DOUBLE DRUM DRYERS, M.D.

1—A. N. 4' dia. x 9' long atmospheric DOUBLE DRUM DRYER complete.

1—B. & C. 28" dia. x 60" face Atmospheric DOUBLE DRUM DRYER complete.

2—Direct heat ROTARY DRYERS; 5'x30', 6'x35'.

1—6'x35' Louisville Direct Heat single shell ROTARY DRYER.

1—4'x20' Ruggles - Coles Indirect Heat Rotary Dryer.

1—4'x20' ROTARY KILN or ROTARY DRYER, Ruggles-Coles, geared-head, motor drive.

1—6'x60' ROTARY DRYER.

BRONZE DRUM DRYER

1—Buffalo 48" dia. x 40" face ROTARY VACUUM DRUM DRYER, with bronze chrome plate drum. Complete with 2 receivers, barometric condensers and all accessory equipment. SPECIALLY PRICED.

STAINLESS STEEL TANKS

28—New 250 gallon Vertical closed Stainless Steel Tanks, 38" dia. x 52" deep.

1—900 gallon Vertical Closed Stainless Steel Tank.

1—New 350 gallon Vertical Closed Stainless Steel Tank.

1—New 300 gallon Vertical Stainless Steel Tank.

ALUMINUM TANKS

24—Closed STORAGE TANKS, rectangular shaped, 73"x34"x60", 700 gal. capacity.

24—Closed STORAGE TANKS, rectangular shaped, 50"x46"x72", 800 gal. capacity.

9—250 GAL. NEW CLOSED HORIZONTAL STORAGE TANKS, OVAL SHAPED, APPROX. 46" AND 28" BY 61" LONG, 18" ROUND MANHOLE IN TOP, ⅛" PLATE.

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1—Lummus CONTINUOUS DISTILLING UNIT, capacity approx. 15,000 wine gal. of 190 proof alcohol per 24 hrs.

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6—DeLaval motor driven YEAST SEPARATORS, stainless steel Bowls, explosion proof motors.

5—TANK SCALES, 72,000 lb. capacity.

4—Fletcher 40" solid stainless steel Basket CENTRIFUGALS, direct motor driven with two speed motors with skimmers and unloading plows.

1—Buffalo Atmospheric DOUBLE DRUM DRYER, 42" x 100".

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Motor Driven Bronze Pumps, Instruments, Dial Scales, Copper Pipe, Speed Reducers, Pulverizers, Portable Agitators with Explosion Proof Motors.

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ALUMINUM KETTLES JACKETED

80—Aluminum Jacketed KETTLES, 20 to 80 gal. capacity, like new.

1—500 gallon with agitator.
1—750 gallon with agitator.
1—1,200 gallon with agitator.

STAINLESS STEEL KETTLES

38—Groen 20 to 80 gal. stainless steel Steam Jacketed Kettles with covers and stands and bottom outlets.

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Aldrich Pump Co. Vertical Triplex HYDRAULIC PUMPS, 2¾"x8", equipped with Herringbone Gears, 67.5 gpm, Maximum pressure for intermittent duty 2,200 lbs., for continuous duty 1,800 lbs. Pump and motor mounted on common bed plate.

Motors are 75 HP. 3/60/220-440 volts, 1740 RPM. Complete with starting panel, consisting of G. E. motorstarter switch, push button control, square "D" Switch, and capacitator.

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FILTER PRESSES

1—No. 12 Sweetland, 36 iron leaves.

1—No. 10 Sweetland, 52 brass leaves.

5—Sperry, 36"x36", iron, center feed, 61 plates, each with motor driven hydraulic closing mechanism.

1—Shriver, 30"x30", iron, center feed, 46 plates, ratchet closing device.

1—Johnson, 36"x36", iron, center feed, 44 plates, double end, gear closing device.

1—Sperry, 30"x30", iron, plate and frame, closed delivery, 31 chambers.

ROLLER MILLS

1—Day, 16x40", motor driven.
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3—20x48", belt driven.

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2—J. P. Devine belt driven two stage, 12 x 12 x 12 ROTARY VALVE DRY VACUUM PUMPS.

1—8'x8' OLIVER FILTER UNIT, complete.

2—J. H. Day, Size D, 600-lb. DRY POWDER MIXERS, M.D.

1—450 gal. copper steam jacketed KETTLE.

2—W. P. MIXERS, jacketed, 100-gal. zigma blades.

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1—K. K. Monoscale FILLING MACHINE.

1—York 500 GPM HOMOGENIZER, bronze fitted, with 15 H.P. A.C. motor.

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1—Pneumatic Scale Tight Wrap Machine, M.D.

2—Copper steam jacketed agitated KETTLES, 1—54" dia. x 42" deep, 300 gals.; 1—36" dia. x 31" deep, 70 gals.

1—J. H. Day auger POWDER FILLER.

2—Colton No. 3 TOGGLE Globule PRESSES, for making capsules.

4—250 gal. closed GLASS-LINED TANKS.

1—Pneumatic Scale six head CAPPING MACHINE.

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2—Pfaudler 1,000 gal. Open Top Glass-Lined Jacketed Kettles.
1—Shriver 36" Cast Iron Plate and Frame Filter Press.
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1—Raymond No. 00 Sugar Mill, brand new, with 10 HP explosion-proof motor.
1—Kiefer Late Model Visco Filler with Reeves Drive and Motor.
2—80 and 100 gal. Lead Mixers.
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4—No. 2B Vallez Filters, rubber lined.
1—Tolhurst 32" Rubber-Lined Suspended Type Centrifugal, motor driven.
1—Hardinge 36" x 24" Conical Ball Mill.

1—Patterson 3' x 6' Rubber-Lined Mixing Tank.
1—Shriver 36" Plate and Frame Rubber-Covered Filter Press.
3—Buflovak 6' dia. Vacuum and Atmospheric Crystallizers.
1—Tolhurst 32" Suspended Centrifugal, with steel perforated basket.
1—Colton No. 14A Automatic Tube Filler, stainless steel parts.
1—Stokes No. 90 Automatic Tube Filler, stainless steel parts.
6—Copper Coating Pans, 30" to 38".
3—Vertical Mixers, 20 and 80 qt.
1—Ayers Tablet Counter.
3—40" Cast Iron Plate and Frame Filter Presses, 44 chambers.
1—Fletcher 30" Suspended Centrifugal, solid steel basket.

6—Baker Perkins and Readco 100 gal. Jacketed Mixers.
7—Duriron, Lead, Haveg and Stainless Steel Centrifugal Pumps, 1" to 2".
1—Jeffrey Style A Hammer Mill, 24" x 18".
5—Bantam and 1-SI Mikro Pulverizers, motor driven.
4—Oliver 8' x 6' Rotary Hopper Dewaterers.
1—Shriver 18" Cast Iron Plate and Frame Filter Press, closed delivery.

TABLET MACHINES

6—Stokes "T", 1½".
2—Stokes "B", 2½".
2—Stokes Rotary DD2, 1¼".
10—Stokes Rotary D4, 31/32".
2—Colton Rotary, ¾".
1—Mulford Single Punch, 1½".
6—Stokes "F", ½".
5—Colton Single Punch, ⅝".
2—Stokes Rotary B, ⅝".
1—Colton Rotary, 200-RP, ⅝".
2—Colton Single Punch, No. 4, 1".

3—ATM 40" Suspended Centrifugals, bronze perforated baskets.
10—Brand New Stainless Steel Jacketed Kettles, 60 to 300 gal.
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10—1,000 and 2,000 lb. Powder Mixers, new.
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1—No. 12 Sweetland Filter Press, 36 leaves, 4" centers.
1—4 ft. dia. x 32 ft. long Rotary Dryer, drive and motor.
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1—4 ft. dia. x 12 ft. long Atmospheric Drum Dryer.
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1—No. 1 Gruendler Pulverizer & 7½ HP motor.
1—No. 3 Mikro Pulverizer & Motors.
1—No. 2 Mikro Pulverizer & Motors.
1—5 ft. Gayco Separator & 5 HP motor.
1—30" Raymond Separator & 3 HP Motor.
1—Model 100 Sprout Waldron "V" Style Mixer.
2—24" x 24" Sperry Plate & Frame Iron filter presses.
1—30" x 30" Shriver Plate and frame Wood Filter Press.
1—6 ft. dia. x 6 ft. long Thropp Silex Lined Pebble Mill.
1—6 ft. dia. x 5 ft. long Porcelain Lined Pebble Mill.

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10—Sperry 32" Iron Filter Presses.
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3—Baker Perkins heavy duty Jack. Mixers, 100, 20 & 9 gals.
2—Devine No. 3 late type Vac. Shelf Dryers, Elec. Heated.
2—Stokes RD4 Rotary Tablet Machines, 16 die openings 1 3/16" dia. Also ⅝" dia.
11—Sharples No. 5A Stainless Oil Purifiers, latest type, 3 H.P., Motor Driven.
4—Rotex Sifters, 20"x81", 3 deck.
3—Robinson Unique Dry Mixers, 600 lb.
1—Chrystie 30"x45' Rotary Dryer.
1—Oliver Rot. Vac. Filter, 8'x10'.
1—Hardinge 3'x8' Conical Ball Mill.
1—Tyler-Hummer 3' x 6' surface screen.
75—36" x 36" Cast Iron Filter Press Plates and Frames.
1—Stokes No. 149 B Vac. Pump.
1—Gruendler 7" x 10" Jaw Crusher.
1—Dings Magnetic Separator, 12" Magnetic Pulley.
1—Gayco 3' Centrif. Air Separator.
1—Sturtevant 36" Rock Emery Mill.
1—Sharples No. 6 Centrifuge.
6—Pfaudler Glass Lined Jack. Agit. Kettles, 350, 400, 500 gals.
10—Stainless steel, jacketed Kettles, new & used, 40, 60, 80 & 275 gals., some agitated.
4—Aluminum jack. Kettles, 60, 80 & 100 gals.
18—Copper jack. Kettles, 3, 20, 50, 75, 100, 250 & 350 gals., some agitated.
1—Abbe 2 Jar Mill, 2 gal. Jars.
1—Hammer Mill, 7½ H.P.
1—Williams No. 3 "Regular" type Hammer Mill.
1—Stedman 32" Single Roll Crusher.
1—Jeffrey 18" x 48" Single Deck Conveyor Screen.
25—New Stainless Steel Tanks, 100 to 1,000 gals.
New Water Stills, Gas and Elec.
New 40 gal. Pony Mixers.
4—Day Pot Mills, 24" x 32" dia.
12—Filter Presses, Iron, Wood and Rubber, 18" to 42" sq.
8—Centrifugals, 20", 26", 30" & 40".
4—No. 0000 and No. 0 Raymond Mills.
10—Closed steel Kettles & Stills, up to 1,000 gals.
1—250 gal. lead lined Kettle.
1—700 gal. steel, copper lined vac. Filter Tank.
1—Dopp 50 gal. Jacketed Kettle.
1—Blystone 2,000 lb. horiz. Spiral & Paddles Steel Mixer.
6—Horiz. Mixers, 20 to 250 gal., single & double arm.
1—Faust 150 gal. Spiral Mixer.
2—Devine & Worth. Horiz. Vac. Pumps, 12" x 6", 8" x 6" x 4" x 6".
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2—Rotary Screens, 18" x 72".
6—Attrition Mills & Disc Grinders up to 22".
1—Double Stand Steel 4-Roller Mill, 7" x 20"
10—Iron Mills, 12", 14" & 18".
8—Stone Mills, 8" to 32".
6—Lead & Paste Mixers to 300 gals.
3—Varnish Kettles, 200 gals.
1—Shutz-O'Neill 20" Pulverizer.
2—Double Roll Crushers.
200 ft. 12" Roller Conveyor.
15—New, Portable, Electric Agitators, ¼ to 2 H.P.
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Chemicals from Natural Gas Technology Described

The Bureau of Mines has released a new publication describing comparatively recent technological developments in the use of natural gas for purposes other than for direct fuel and energy.

A free copy of the publication, Information Circular 7347, "Utilization of Natural Gas for Chemical Products," may be obtained by writing to the Bureau of Mines, Department of the Interior, Washington 25, D. C.

It describes some of the better known materials or raw material stock derived from natural gas during wartime research. These include plastics as substitutes for rubber and silk; ammonia, glycerin, toluene and nitroparaffins for use in explosives, and practically pure chemical products for use as anti-knock motor fuels or additives in aviation gasoline manufacture.

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2 — Pfaudler Stainless Steel Tanks, 13,500 gals., Jacketed.

8—Ingersoll-Rand Heat Exchangers, 580 sq. ft. Surface Area, 442 Aluminum Brass Tubes (New).
1—Louisville Rotary Steam Tube Dryer, 6'x50'.
1—Baker Perkins Stainless Steel Jacketed Mixer, 100 gals.
15—Sharples Super Pressurite Centrifuges, 3 HP Explosion-Proof Motors.
1—Devine Vacuum Shelf Dryer, Double Doors, 20 Shelves.
1—Stainless Still, 40 gals.
2—Shriver Cast Iron, Plate & Frame Filter Presses, 42"x42", 64 chambers, open delivery.
1—Day Jacketed Powder Mixer, 750 lbs.

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M. E. C. OFFERS!

1—Kent 3 Roll W.C. Mill, Chain Drive with 10 HP. AC Motor.
1—Premier Colloid Mill, S.S. Rotor and Stator, with 25 HP. Motor.
2—Stokes Rotary DD-2 Tablet Machines, 5 HP. Motors.
2—Stokes BB Rotary Tablet Machines.
1—Horiz. Spiral Mixer, 2,000-lb.
6—Atmos. Double Drum Dryers, 22"x38" and 24"x36".
1—Shriver 12" Bronze Plate and Frame Filter Press, 12 Chambers C.D.
1—Shriver 18" C.I. Filter Press, C.D.
1—Abbe 10-gallon Steel Ball Mill.
8—New, Stainless Steel Kettles, 100, 150, 200 Gals.
8—New, Portable Agitators, ¼ HP., 1725 RPM, AC, 1 Ph.
1—Exp. Proof Agitator, 2 HP., 3 Ph., 550 RPM.

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2—NEW stainless steel Condensers, 210 sq. ft.

1—Stokes D D S 2 Tablet Press, "motorized."

3—6'x8' steel jacketed and agitated Nitrators.

1—Stainless steel Zaumba single effect Evaporator.

3—Genrich Electric Ovens, 24" x 24", to approximately 4'x7', 0 to 500° F.

1—New Porter Manganese Ball Mill, 15 gallon.

5—New 500 & 1,000 gallon stainless steel Tanks.

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LIQUIDATION!

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1—5,000 Gallon Steel Storage Tank.
4—8,000 Gallon Steel Pressure Tanks.

1—500 Gallon Devine High Pressure Autoclave.
4—H&T Water Filters, 8' x 20'.
3—Turbo Generators, from 400 KW to 2750 KW.
75—Tons Cast Iron Pipe 8" to 18".
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